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Editorial



The first new issue of 1998 sees a couple of previously mythical games turning up in impressively complete and final form; both Myst and OnEscapee have been entertaining us this month, and turning more than a few heads among our console-obsessed workmates we share our offices with, It's satisfying proof that the Amiga

scene is well and truly back in business, this time driven by people who really care about it. It's also been encouraging to see the flood of responses we've had from our reader survey in the lest issue and on the web site. We'll be bringing you the results as soon as we can collate them. Now go and enjoy the man!

Tony Hornan, Editor

DIY Scene

22 CDDA Mixer

This month's DIY project is of use to anyone who has a CD drive. Most Amigas don't have the CD audio connection going anywhere useful, if it's connected to enything at all. Simon 'portable Amine' Arches shows us how to combine the CDDA output of a standard CD-ROM drive with the Amige's audio output, faeding into a single stereo signel that can be piped directly to your chosen amplification system, It's cheep, quick, and really quite easy tool



Feature

28 The Big Switch CPUs has come to a dead end, and the Amiga is in need of a new engine. We already have the bolt-on PowerPC options from phase 5, but that's not an official Amiga line as yet. Does that mean we'll all be using PowerPC in future, or will Amiga Inc decide to change tack and no for a Pentium or DEC Alphe chip at the heart of a new machine? We take a close look at the current situation of CPUs, their menufecturers and their users, and ask, where next for the Amige?



Feature

32 The Big Switch

CU Amige looks at a bit of PC software! No, we heven't gone mad or lost our marbles, it's the new official Amiga amulator for the PC from Cloento, the PPaint people. Does this spell the and for the Amiga or is it a valuebla lifeline? We take a look at it and canvas a few opinions from the Amiga scena to find out whather it's going to see the end of Amige headwere as wa know it, or be confined to little more than a curiosity by PC users.



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Cover disks

18 Scala MM300 The ultimete multimedle package comes your

way on this month's cover disks and CD CD-ROM users get a load of support files too. Find out just how powerful and versatile the system really is, starting on page 18.

14 Super CD-ROM 19

This month's CD continues the trend of over 600Mb of the best Amiee softwere you can lev

your hands on. As well as the full Scale system there's ell kinds of tools. mods, graphics and demos

to keep you entertelned over the coming weeks. Threre's elso e good healthy collection of web sites for you to browne wrthout running up a penny on your phone bill





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News

Amiga Quakes!



A Bloody great mounters bunding your way couriesy of id Saftware and ClickSoom!

piritide the Arrige the Caske of Soft single endary super Doom clone fine experience on the Arrigan early 1997 in the form of the Arrigante feet of more than Arrigante feet or uncollicate port of Arrigan coders after the source code to the gener Grouf it's way note a castar's builten board and made it's way sound to an extension source and company of the company of the properties of the company of

After months of

It is some that Elickboom

acquired the rights to Quake after is small group of hackers was able to prove to the congrial software house that the Arringa was capable of running the software, as the is e very similar story to the one that lead to the publication of Arringe Myst, elso by ClickBoom.

Quake second shoce amongs! Amings users responding to the ClassBoom weekled it is currently should he mest be positive and should he mest be positive and knowing ame on any computing system and by getting on conversion for the Aminga is something of a coup Currently, Quake only runs on the Segs Saturn, the PC and the Macriticals Versions for the National 64 and Pleystation are on pigent off again afters that have been long awased but still appear a way off, by contrast the Arrige version is already almost complete

The Amiga version of Quake hiss ell the leatures of the PC version. It should be possible to use a wide range of Quake add-ons, and network access has also been promised, Indiaed we can expect to see Quake "Clana" of Amiga users turning up on the internet based multi user Quake-works.

We'll have to wart and see how will the livel version of Quake runs on the Amiga before we can tell you exactly how lest it will run on your system, but from what we have seen. It's going to be pretty good Keeping in low resolution, it should be playable on an AGA machine with a 8940 or better specification.

processor the baller if will run. We'll have to wait for the PowerPC version to self Queke running at its bast, however.

A Quake demo was shown running on a PowerPC by Hasge and Partner in Cologne, and a run at en impressive speed Indeed. We have yet to have confirmation of this, but if seems likely that Cilichboom will also be supporting The Permedia 2 based Cybenvision and

BlazerdvissenPPC graphics add on cards. Quake is noted for using the OpenGL 3D gaphics API which is directly supported on the phase5 cards by the OpenGL intermentation of the OpenGL allendard. A BB0BO Armiga with a graphics card will run runs Quake rather nicely a PPC Armiga with the 3D ourd will be something to behold

▲ The way? first after duing the letest issue of CU...

BoxeR Shows Us What It's Made Of ing booting straight from CDs



" # specifications of the new BoXeR motherboard form Index Information have been appounced. Rosed on the Amicin O.S. and chipset, the BoXeR is allow systems within the nace range of eventing A1200s and A4000s to be built. arry standard PC deskrop or tower 4.72 pm SIMM sockets end a realheaders for ponter, RGB video AV serial audro, joystick and mouse The specifications of Index's board Blittersoft, ere looking very impres sive. Here's a quick run-down

ase, and cames 2Mb of Chrp RAM Supports Motorols 68040 or \$3060 at 25,75Mbr * #x 72-pin SIMM sockets allow up

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News in Brief

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The PowerPC version of the Amigu hands on the new PPC client or to soin in the RSA secret key chall

User Group Network formed

The internet-based system will act nating from Amrga, Inc. and will be members by a med

POV Raytracer V3 Out. **PPC Coming Soon** Returns

Persistence of Vision, the multi-plat form public domain regrienno software, has been updated. Persistence on program for several platforms. soluting the Amrga Joel Newkirk the of the Amiga programmers, has eleased the latest mosmation, ver-

What Persistence of Vision lacks s a GUI you have to stope your 3D scene by hand, although several helpful exemples ere notivided and it you're

good with graph paper What POV has in abunrextures to make your

objects visually appealing--with sp many authors working on the project, they ve amassed guite a lot, to rivel the included imagine textures Newkirk also promises support

for the PhaseS PowerUP caids in the near future, allowing much faster versions available for all Amigas even those without FPU units. To learn more about POV-Rey, check out www.wearefamily.com/newkirk.

Persistence of Vision AMIGA

Gamesmith

Following the conclusion of US game developer Bithead

Technologies' distribution contract with Oregon Research, they have decided to return to direct seles of their GameSmith game development system for the Amiga

GameSmith is a set of tools which integrate with any Amios C or assembly compiler to keep programwheel" every time they srt down to ber of useful routmes commonly Bithead can be reached by phone on +1 719 683 5681 or e mail (lphne@webaccess net)

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News in Brief Power A5000 grows!

The Power A5000 dasktep cemputar frem DCE in Germeny and the UK's Power computing is undergo-Ino a minor change of specification. end interested readers will be olad

The A5000 is a being launched between the A4000 and the A1200 but in reality it is clear to the A4000 in spec while being closer to

the A1200 in cost

much as possible with industry standard parts without bringing in any of the larger changes being discursed by Micronic and Index. The idea is that it will offer 100% of the standard PC style ATX case, use PC



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keyboards, and PC monters vo a scan deubler. An RF edapter for TV use will be an eptron. The board will buffered IDE mierfaces, and a flash EPROM for ROM updates. There deceder card

Onomally the A5000 was being te be released as a 69030 system. as pictured here. However several petentral suppliers of 69040 preces sers have turned up, and it is now deking almest certain that the A5000 will be fitted with one of these without any argnificant rise m the price to the end user

cerns from seme quarters that as appealing as it may seem in either areas, the issue of future updivides ability to PPC had to be reselved Although no decision has been made at time of dome to posse at A5000 will be equipped to: PPC usage in seme way.

The A5000, whether equipped with an 'D3D er '040 processer should be tinelised in the next cou moluding full pricing than

Contact Power Computing on +44 (0)1234 851500 er check eut

There hed erigmally been cen-Studio 16 Secrets Revealed

Sunnze users ere getting serve suppert again. Betere the geld rush of came there was a single werd in saneus 16-bit audie on the Amiria AD1012 fer those on a 4-track budoat) Seme still recard Surrize's Studre 16 software as the ultimate word in audie editing, but Sunrae wonl out of business without shering much of its developer informa-

Kenneth Nilsen of Digital Surface hes taken seme significant steps leiassembled free archives of new scripts and tools for Studie 16 cards.

moluding an AIFF converter as well 16 enthusiasts. Write le mejordome@thule no with 'subscribe studig16' In the body te iein

As of yet, nobody has been able le dig deeper than the seftware

these beards to determine how to write an AHI driver which would enable the

list of applications, tools, and games laking advantage of AHI's flexibility But this software breakthrough allews home and orofessional suring between Studie 16 and other audro



tateside News

by Jeson Cometon: Effice in Chief of Amica Report Magazine

Licensing Score

For those keeping score, Amigia International has released its list of official Amiga Inconsees for existing Arniga technology (or techmost sectors currently listed

panes doing A1200 tower nebuilds fauch as Micronik of Germeny), Nova Sector Engineering of Michigan is ket. The specs of the machines are Amiga hardware - but the prices reflect the "upscale" marketing

REC* Wonder TV



As has been expected for some time, QuikPirk's Amins license has been amroably renewed. QuikPak has been responsible for A4000T manufacture smea Esecon days and took over distribution responsi bilities in early 1996. Pestron a spe-

surplus inventory has been rewarded for their hard work with a parts.

eine group of licensed manufactur-

of the new "merchandise" other Amige badged sun-

Al's ficense list is interesting in that it mentions. 'Future Urcenso contracts

in sraht," which one could take to mean that they are rather certein about them cussing it

Among those Insted is REC. the US-based manufacturers of the Wonder Armoa plane for the Chinese market, and a

"Providential Tachnologies" who are apparently developing a new MPEG mare Information on Providential in

Dark Days in Oregon Oregon Research HrSoft's North

American distributor, has apparently fullen on some difficult times. The has faced a staff exodus, falling sales and mcreasing debts. In a recent letter to customers and the market in general, he applicated for the company's recent poor service. that customers would respond to his call for help and generally reduced

prices across the board. At the same tions which in this day and age is most anybody

time. Oregon Research cancelled the last of its Atari support. The company is responsible for Termite and Termite TCP and has published other Amiga titles in the past For more intermation, Oregon

Research can be reached at

Playing With TV Playable TV of Pasadena California

is looking to turn the Amrea's powerful video capabilities into a multimadia revolution. The company is marketing Toaster/Flyor-based

While not specifically marketed es Amiga-based it is clear enough from reading their materials that Arringe technology is at the core of their systems. Their system. bossts the abrity to be configured ally any source, and rapidly interweave it with text music, and nies who can't efford m-house video socialists could be looking for To read more about Playable

www.playebletv.com

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Super CD-ROM 19



CU Amiga's Super CD-ROM 19 (or CUCD19 for short) is once egain packed full of naw software and all menner of files to keep you and your Amiga busy for the month shaed. Still not got e CD drive? Just look at what you'r a missing!

How much of what?

It's easy to miss where the real
contents of a CUCD lies so
here's a list of how much date
lies in such directory.
Headinling the CD is Scale
MM300 (see page 18 for a well-
through guide). Aside from that
there's more they enough to
keep anyone going for the next
month, whether It's graphics,
offline web browsing, music,
programming, games, or simply
programming, games, or simply
tinkering with the many and var-
led utilities and tools to be
found on the disc.

	_
 Scala MM300 , 	21Mb
OpenBSD	54Mb
 CDsupport 	63МЬ
 System files 	13МЬ
● CD-ROM	12Mb
Demos	13МЬ
Games	45Mb
● Graphics	38МЬ
 Megazine 	20МЬ
Online	114Mb
 Programming 	72Mb
• Readers	32Mb
• Sound	32МЬ
 Utilities 	9МЬ
• WWW	SSMA

Making the most of CUCD19

All CUCDs are designed to be used whether you boot from the CD or your normal Workbeach. If you boot from the CD, everything is setup and ready to go. If you want to access the CD from your Workbeach, you should first run IntiCD.

This sets up vanous essigns and paths needed by programs on the CD so if you don't do it, things won't work it doesn't make any changes to your system, of write any files to your hard drive, all changes are temporary and can be reversed by running intCD again.

Your own custom CD

In the past you had to use whatever file viewers we set up on the CD since these had to work with all Amigas they were quite limited. From CUCD12 we decided to allow you to specify how the CD should work on your Amiga and included CDPrefs in the CDSupport dewer.



If you have never run this before you should be asked if you went to when you run firstCD CDPrefs lets you specify which program you want to use to handle each type of file graphics card users can view protuces in famili24 bit colour.

ProjectXG users can listen to

The first of the control of the cont

mits files through their midt card and people with sound eards can listen to mode with an AHI module player it elso means we were able to provided diff ferent defaults for Workbanch 2-x users. Once you have no richted upon an III-bette und cardinalistics.

Once you have not CDPrefs, your setting will be saved to your herd drive and will be used every time you use this CD or any other CUCD.

Some people had problems with the organal use of IDer, partly through a lock of understanding of how it worked and partly through a tack of explanation from a Alticons now use CUEDNe as then default tool and the previous IDer problems should be a thing of the past. If you do have eny

Highlights of CUCO19

Songname: Random (nit:		diotic ilon e335ae65		Progress:	1
	Realtime	}		Config	
BPM:	164	Chords	Bass BBeat	64	
Eject Stop	Play New	Melody: 64 Main: 64	Acld:	64	Cha
Sav	e	Use		Cance	1

a cierci intia praeram which automatically consuses and plays music is resisting All year have to 46 is set a few porferences or even just go with the defaults. Dan't assect emotions to rivel the classic composers, but it does a good line is bappy hardcore (if that's passible)

n addition to the main opodies. like Scala MM300 and OpenBSD 500Mb of high quality material. Those ere a few highlights, but by the CD, the more you will find.

12 wn

COROM/Isdhase The CDID collectron on this CLICID

Sound/AlgoMusic Not only do we have the latest ver-

sion of this rendom song creator, but this one comes with a superb set of extra semples for even bet

Utilities/Birdie ". fowing on from last month's

Workbench 2000 feature here is another progrem to radically alter the look of your Workbench Birdre els you use graphics as patterns for your window borders etc. With the appropriate choice of pictures

Sound/MrMPEG MPEGA is a superh MP3 audio

phons can be e brt deunting. MrMPEG provides a clean interrioling the options, you can create

Graphics/Gallery

- yone with a fairly large colling-

you need Gellery creates index pages of your pictures in HTMI ferred to eny other computer too

like trying to find the one picture

has almost 6000 CDs. Unless you install every one onto your hard dove it can be very time consuming Imding the one you went Isdbase is a dalabase that makes handling your CDID collection so

Utilities/Scion

Scion is the Amiga's leading genealogy program. It has been developed over severel years, and contains a wide range of powerful tree, this is the program you need

Graphics/UltraConv

graphics conversion program, but there's more UltraConv handles a wrde range of graphics formets end can convert smale fries or whole directories. As well as conversion it also provides a number of rmede processing finatures, so you can ofter the images of the



Hern's a proof you of HTMI College makes up thurshoul reference paper for all of year arctury files. You can thou pursue and pick these off at well using a web however Thee her the advantage that you don't used to committee the often obscure fincames that are given to protures when it cames to having to day one ant for a present



Graphics/ScanTek ScanTek is a shareware driver for

of SCSI lietbed scanners. These models ere now available et very low prices and this evaluation versign of ScenTek means you can the scanner before registering

Online/RFCs

RFCs are the rulebook of the Internet. They were icricuded on a GUCD a year ego, but there have been meny updates since then



Scine It's a genualogy database type offer with lots of powerful fautures, reclading support for Affaix. Just the thing for traces year family tree

This directory contains the full set of current RFCs, useful for anyone with

What's on this month's CU Amiga CD?



Scale MM300: The full version of package, so good that even IBM displays. The CD version also moludes e large emount of support

OpanBSD. There has been a great deal of demand for a good Linix OgenBSD is the most up to date evalable. This is the full installa-Unix under AmroeOS in the way

that you can with, say, ShapeShrfter or PC-Task Unix will

CDSupport. This contains various support files such as mod players CUCD: The CUCD diewer contains most of the CD contents, here is a



with almost 6000 create a searchable database from

CDROM. We have

en updated collec-

Damos: A salectron of whirty Heshy noisy

ple who like whirly.



levels for Diamond Following the problems some oeccopy of TFX, we've put the whole-

hed some lifes mission, making a We have also included a massive collection of hard drive.

Graphics: The letest Picasso96 errd

ics card softwere are programs designed to make life

satisfying PCD Manager is sur prisingly enough, a program for managing your PhotoCD collection image processing and conversion driver software for Halbad scen ners to get the images into your Amiga in the ligst place.



Online. The latest for

Amiga mailing list. See who said. lest year's RFC collection, the full current set of Internet standards Previous: We had



time. To keep you going until next month, here are



Detalypes and Algorithms', conteming useful material for those of you Readers, Another



Sound: Everythma



Utilities: As usual a wide verrety of orngrams to make your

to really change the look of your Workbeach and the Scion general



view them. Heve a CU Online site!



If your CD does not load contact DiskXpress on 01451 810788. H I hay advise that the CD is faulty send it along with a SAE to: CU Amige Megazina Disk Returns, DiskXpress 7 Willow Court Bourton Industrial Park, Bourton on the water. Gloucestershire GL54 2HO

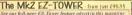
Please nels that some CDs will not autoboat on eysleme other than CD32s, so try load-Ing it from Workbeach first CUCDs will work with almost all Amigs configurations and filasystems. Howaver, we recommend older CD filesystams be replaced where possible. A non-working program is not un indication al a laulty CD?

Evetech's Sale Specials: 4-speed CDROM system - £99.95!!!; A1200 Magic Packs w/£180 worth of vouchers - £249.95; EZ-Tower A1200 systems from £349.95; EZ-IDE s/w from £12.50; 030 accel's w/4MB from £79.95, w/8MB from £89.95; 39 Mips '060/50MHz £278.95; A600 33MHz '030/MMU/FPU/standard summ to 32MB - £99.95 - or with 4MB +£7; with 8MB +£14; LS120 £99.95; (Price down, New Product)

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Bare Orive avet CR9 95 ,120MB cartridges just £14 95/1 ot £34 95/3 62-406 universal EIDE drives anthware is required - 50% discount w entered with the LS120 or 4-device buffered interface. Upprades

WARNING IDE part when adding extra denver"- John Kennedy - AF - July 1997 Thus the tempted to skymp. Fit on Exclech James 106/ATAPI Archip buffered expansion to us A rough a Health. The original and faut - Just £39.95. Now with 50% alsowed off EZ-IDE software



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DISKS



Scals MM300 is an incredibly versatile multimedie authoring system. It allows you to make visual presentations, slideshows, video effects, video titling, interactive information services and lots more if you put your mind to it. One of Scala's best espects is its ueability. Almost anyone cen pick it up in a metter of minutes and be baning out slick and professional looking projects with eese. For the more tachnical user there's also en-ARexx port to ellow eutomated processes to be set in motion.

Loading instructions

You can run Scale straight from the CD or eimply drag the S drawer over to your hard drive. Click the MM360 icon to sta the main program. Disk users have a simple installer. Boot from your hard drive and insert the first cover disk. Open the disk and a drag the icon that appears over the required destination on tion drag the cost that appears over the required or sections of your hard driven. Scale will then be installed. Wrill find some additional Scale data on the second cover disk, Copy the contests of the Fonts drawer into the Fonts drawer of your Workbeech or Sys; partition en your hard drive. The fact that you don't have many data files on the disks doesn't detrect in the use of Scale, as you'll be using most of your own tions and sounds once you get the hang of it



Scale is one of the heat No other program tirkes advantage of the

Amige's unique hardware to the same degree, producing such professional results. Occa you've seen it in action we can guarantee you it close to producing such powerful and sheer professional amouthness

als to this day, and you'll soon see why Scele pops up everydey on tolevision, in Hotels in information loosks and museum exhibits.

What can it do?

What can't it do! You might think glonfied home video titling program it's not - it much much more to many ways Scala is a complete visual programming suite It's easy to use because it has a special interface called Human Tough, which is designed to be as 'point and click' as possible However, there is also an underlying programming fan guege colled "Lingue" if you went get down to low level coding

Scala is extremoly flexible. It comes with software extension. modules for driving extre hardware, such as CDTV's or genlocks Scala also speaks AReior, which means it can communicate with other epplications, including AmlgaDOS itself When it comes to good timekeoping Scala is unbeatable

f. Cheb bern to weit

5 Lord/Save buttoon

7. System proporties -II Scroll bar

5. Toggle to a different Berrane.

preject

Pictures load in a flesh and you can play standard Amige ANIM files back to-back with no peuses or skinping. Larger files can be specied directly from hard disk, and Scala elso supports MIDI for high quality music when used with extre hardwith You can also use standard MOD files to provide a soundtrack for your animations, and with a unique mal-time recording you can quickly synchronise everything per-

With its extensive collection of text effects and wipes. Scala can produce effects on an A1200 which even top of the range PCs still can't get close to metching Smooth scrolling tool excellent fades end professional subtitle features it's like having your own multi-thousand pound digital effects studio

What can you use it for?

Scala can be used for enything which makes use of graphics or sound. Here are some examples of what you can use Scala for - with it's standelone pleyer program you can create dazzina presentations to IMPLASS YOUR forends

Slideshows, titling your home videos, cleating interactive training applications, quiz programs, linking enimations together for recording to video (spe, adding sound effects to animations, closting music videos, writing games, multimedie, stand-along information kiosks, business presentations show window displeys, museum





// Scala Multimedia MM380 ° Scala RS 1993 SCALA F User interfaci aminut at fenu palette FIRSCRIP tain Shuffler Scalaprim File Shuffler Create shuffler icons -Close Workbench 6304 2000 ntoLos 309.5M 219.3M 98.2M Pointer 🗸 90.6M 4.3M 86.3M Gounter: Off

Introduction to Scala When you first founch Scola you li

orske

Scale

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fard

CAR

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for?

Vou

dina

Jm

here you can create and edit the individual pages which make up a Scala "Script", From here you cen also load and save previously creal od scripts after the system settings

You'll notice that the Scala system looks slightly different from to use There are no menus In appear so don't waste your type

Each page in the sonot is repre-

sented by one numbered horizontal bar. You can see the page as it will appear in the fmished script by clickrng on the Show button in the bottom left, and then selecting the page

The page ber has five parts to it The number the title the wipe effect, the timing delay and the sound event. This makes it easy to alter the properties of the page for example, if you want the page to automatically move on efter a secand's delay, click in the liming area

with the right mouse button

delay The picture of the mouse means that the page will meue on only after the mause has been circled At the bottom of the main edding window is the Shuffler button Click here.

and maleud of the horizontal bar display you'll see an array of images These are the pages which make up the script, and in this mode it is easy to get an

overview of your script and re arrange the order of pages as needed if you select the System but-Ion, you bring up this screen for altering various settings You can change the colour of the screen for example, or alter the size of the Shuffler medes if memory is limited

you can swich off the Workbooch drspley and you can also check on theinstalled EX modules (for controling external begivere) and launch the Scala support utilities



When you want to edit a page or create one return to the main. display You can edit an existing or by double-clicking on the page. name. This will pop up a display like

This locks like quite a complicati ed display but it sivery easy to use From here you can enter text onto The pege simply click and start typ ing. The various buttons allow the font size, colour and style of the text to be changed. The "in" and how the text appears end disappears. You can also create buttons end loed brushes end backdrops but we'll cover that in more detail

Creating your own Scala Project

One of the hest ways to loarn the workings of any package is to get stuck mto a new project from scratch We'll stort with a fairly smi ale one that includes some moving graphics and a bit of sound too



A Sten 1

Start Scala running You'll be greeted with a licially empty script ready for you to get started Let's create. our own extra flash streshow complete with musical soundtrack, so get some of your levourite protures and MOD files ready



A Sten 2

Click on the New button to create the first page. Scale will prompt you for a icon if you want to see what I hey at look like. The number of backdroos will depend on whether you are using can use any image as a backdrop



A Step 3

Now add some text. This is going to be our title screen, so e little introduction is necessary. You will have to change the colour of the text (click on a colour from the palette, and font to make it more legible and





A Sten 4

Lats make it a little more interesting. Select the text (drag a box around it) and then clock on the button marked in You'll see window containing all the possible ways of making the text spoker. Thy them out (using Show) and their select your lavourte.



A Step 5

Chck OK, and you can name your page. Clock OK again, and you will be back at the main edings screen. We don't need to after the timing as it is afready set up to wait until or mouse chck (aght button this time), but you imight want to click on the Wipe button and select a new style for the entire page to appear.



A Pton 6

Let's get some sound going. On the second page for citch in the empty sound slot. You can now select some music to play, click on the left-most button to change to play, and then select a MOD file. You can now eiter fade ms end outs, and



Step 7 (see bottom of previous column) After the smmo now, or the music

will start and nothing else will heppen until the mouse is choked. After the Was setting to 0s, end that will mean the page will move on as soon as the func hira started. You should give this page o name - clock on the poon eximple; and enter a time.



1200

AStep 8
Now add the pictures which make up the shifeshow. This is easy click on New, and then select the picture you want as the beckdrop mage. Repest this for each picture, until you've added them all. Use the Shuffler mode to see the pages as you make them.



AStep 9

The final step is to adjust the timming. After each of the picture pages to peuse for a few seconds rather than wart for the mouse dick. Depending on the pace of the saldeshow, 3 to 5 seconds will be more then anough. After the Goto secting of the last page so that it (loops back to the first mage.



≜Step 10

That's it all done! Run your script now and watch your clessy alideshow complete with music backdrap. When you get more adventurous you will be able to synchronise the silde changes to the music or even pleyback and t

Interactive quiz project

Let's now look at how Soals allows interactive presentations to be made. The saxiest way to do this to assained button, end now they can cause your capitate lumps cather than simple supper one of the three death of the country of t

and sevice on some

mation kiosk for a historical town centre (well you could have bettone which launched digitized movie eller of herese elevan carts and people in hump hates. Not that it's that likely, but you get the idea. Alternátively you could recibe destable the idea of the idea of



A Step 1

With an empty Scala scopt to start with, create a new page by choosing on he New button. Now enter some text introducing the quite and the first question. Design the question to have a Yes or No enswer Save the space.



Sten 2

Now we need to create a page which will be displayed if the user of your scrept gets the answer to the question right. All you have to do is define enother new page, and include the word "Correct!" right slap being in the middle, like this.

A Step 3

After the answer has been dankwed, we want the guiz to start appin If you want to add other questions, then you would jump to the next question page in the script. From the main edit window, select the Physe setting and alter the Go to to jump back to the Question page



Repeat this for the page which is displayed when the wrong answer is given. Again, after the Go to part so that it leaps back to the start of the script and the first Question page. You might want to add some wipes and sound effects at this point.



▶ Step 6

To make these shapes into butcan deline but acreen or select ting an existing object Right click to make select one of the shapes with a nght click Right-click again

is defined

4 Step 6

using of the

edit the



V Stan 7

You can now define which page the button will lead to obviously this depends on the question. Repeat for the second button -



▼ Step 6

That's all there is to it! You can now run your script and test yournames, more questions and more sound effects. Scala also has Internal vanibles which can keep score, something to edd leter





I modern CD-ROM drives come with audio output connectures A headphones solded is standard on the foreign panel, but there is also e bases belows adopt on the back commonly referred to as CDDA (CD Opdia) palch this ride your Ampas each output of the Audio Medidn's I be handy if you could the heavy as well on output of the connection feeding your speaker system. Even project to redden your speaker system Even project the ADO and ADDO have been project the ADO and ADDO have been project to a ADO and ADDO and ADDO

this even than the level of the CD audio is

much lower than the Amiga audro, so this month's project is quite applicable to ell Amigas

Background info

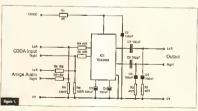
This Mille project as based eround the highly useful TDA/SE2 asterio amp chip which makes life a lot assier. Most of the components are on-based the chip so very few external components are needed. Figure 1 gives you the schematic for our little amp and you can clearly see that the whole project fission to a small PCB.

The two mode sources are fed who the impact of the eight value for ensure army companing field (Fig. 19). The IDM/202 does its companing field (Fig. 19) and through CS and the companing field (Fig. 19) and CS and

Sten 1: the PCB

And so to adjustly make the PCB. This month we have chosen to use stripboard because of the simplicity of the project and to create the availability of parts to every-one. There is no need to obtailly order special parts, and everything can be purchased from Mapili, Electronics (see the parts half).

Firstly, we need to mark out and call the stripboard You will need a proce which is 19 holes long by 7 holes high II is possible to cut the board by schoing along the strip of holes to cut with a craft kinde and ritler Once the board has been schood gently flooring II in either direction will result In it.



cracking. Hopefully, if you made the scribas deep anough, it will crack slong the marked nes. Do take care whan trying to crack the board. Do it wer gently until you hear it at art to crack. Otherwise it is a job for a hacksaw.

Anotes the three spitement. Notes the three spitement was a posterior to the spitement of t

An important note to make have to make as to make as the milk who of copper are removed otherwise threse well short out on applications feeces. Using a certificial, or not down the insulation shape all each trace to ensure they are determined the control of the

Required Tools

Phrilips screwdrives Soldering Iron Solder

Creft knife (if your not sure about this, gal on edult to help you) Ruler (straight edge) Wire strippers

Multimeter (continuity lester)

Optional but useful

Straight screwdriver
Digital muthel or
Heal shrink sleeving
Side cutters
Hacksaw
"Helbing hands" soldering tool

Step 2: soldering

Supp. 2. advicerning Vanow ever and of bart evidering the components in pictor. There is no road order in which to do this, but I found it assess to start with the amalier components first Cheet this constitution of the components first Cheet this constitution of the components for Cheet this with the amalier components first Cheet this with the components of the components of the components of the components of components of that to the key ou put the components of components of that to the key ou put the components of compone

The wire links are fiddly so it is probably better to stert with these Figure 3 shows how the links lift in A tip here is to use the leas cut off the components to make the

links, but do make sure you leave anough wire on the components to allow soldering. Because of the physical size of the trease on stripboard it makes soldering outer difficult.

on the least of supposed in makes soldering quite difficult to the beginner. To assa this situation I would recommend you buy one of refellable gas soldering irons. Most mains soldering iron fips maybe too large, but you could file them down.

And her benefit of a gas irror is the heat. Many componaris don't like accessive heat especially chips and the TDA/822 is no acception. This chip with with stand 300 degrees for about 10 seconds but any more well undoubtleftly deringer the part beyond userbifyly With a jes son you can effort the tip heat by turning up the gas satting.

Soldering is the most important part of any fet building as not anough heat will rasult in something known es a 'cold solder, cont'. These set up a large nerstance of joint and one be a real pain to track down, but by the same token, too much host will set to kell elatorine components. See DIY Scene in the November assus for more soldering best.

Step 3: plug ins

So now you should have the wre links solidred m. Link 1 is in a rather swiward place and you need to make sure libel any surrounding companents due not short out on it, so bend it accordingly to clear it every limit the holes 9 toolking at figure 4, you can start to place the rest of the parts into their postions. Figure 4 shows component locs ton and the holes used by such file designated by a rental back cruefal.

secommend installing this resist ors next. Start from the left hend acke and work your way ecross. As each component goes in, It hat legs should appear through the board into it trace. If for some reason you end up with a liep on a cut, you have either put it in the wrong place or you have this board the wrong lace, or you have this board the wrong lace or you have find board the wrong way round. Capecitors would be next, and again start from the left and work.

across Referring to Figure 4 again note that C3 to C8 are electrolytic and, as such, are polarised

This means that they have to go in the inpli way around if you put them in backwards they don't work wall. Each of I ha capacitors has markings on the body, usually in the form of a line I trait points to one of the logs. It may have minus signs in the line and if its shows that the indicated log is the cathed or inogenee connection. Figure 4 shows the soluting of thase parts. CZ, CZ shows the soluting of thase parts. CZ, CZ sets all they way parts!

Then comes the CDDA header socket. Again care should be taken to avord shorts with the wire link L1. And leastly the TDA2822 chip itself. One note here is that the chip has to be oriented correctly. If you look all the top of the chip you'll see that it arther has a small socillop in one end or a

small dol
In the case of the dot this marks pin 1,
whateas the scollop if I were at the top, pin
1 will be the one at the top left. A warning
hare is that if you do manage to put the chip
in incorrectly you'll damage it, so Figure 4
shows that pin 1 is at the bottom right in
effect the chois or upside down.



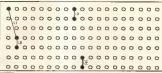
of Dea thin diagrow to locate the cets in the stripbeard tracks on reactly

1

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t and ryspeesed list). t the s is 19 le 10 p of



Pipare 3.

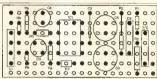


Figure 4.

reire	s List		
	Quan	Dascription	Order no
1	CDDA Header socket	YW11M	0.4
1	LM387N Dual Pre-amp	UJ38R	1.2
2	4R7 1/4W Resistor	M4R7	0.0
1	1R1/4W Resistor	M1R	0.0
2	47K 1/4W Resistor	M47K	0.0
2	1K2 1/4W Resistor	M1K2	0.0
2	100R 1/4W Resistor	M100R	0.0
1	100NF Polyester disc	YR75	0.1
2	100uF 16V Electrolytic	AT40T	0.1
2	470uF 16V Electrolytic	AT43W	0.1
2	100NF 16V Polyester layer	WW41U	0.2
1	Stripbooard	JP47	1.5
	(Opti	onal)	
1	3.5mm Stereo line	RK51F	0.8
1	each Phono plug	FJ88W/9W	0.3
lm .	Coax cable	XR21X	0.3
10m	Power cable Black	BL00A	0.5
10m	Power cable Red	BL07H	0.5
1	Enclosura	FK73Q	1.2
Total 0	Cost		€8.8

Step 5: connections

You now have a finished circuit board. This bings us to adding the cabbing so that we can plug the different bits in This is where the setup specific differences come into play On our varion I opted to bring the Amona write in the phage of the properties.

Arrags audio in on phono leads.
This is not too bod on a Zuprid Arrage as these are always ways of getting abbet in an and out. If you are thinking of Laing this on an Arrage 1200 with an external CD-ROM in this yout byte of 100 with an external CD-ROM in this yout byte of 18 albe of 18 leads to suit yout byte of 18 albe of 18 leads of 18 l

So our master has phone leads to being the audio back into the machine and it has a 3 firm sterse societ on a lead for the PC type speakers to be plugged into. The again depends on how you have your eudio connected up. You could a livery were up two phone sockets on the outputs to replace the originals.

These cables should be made from sheathed casual cable to give a good earth screen around the involvables. This helps to ut down on the electrical noise from inside line computer. Things like disk drives, hard drives all care somatimes inlantes, and a good scianing will elimines some of this a good scianing will elimines some of this.

The power is liston from the 13V lines unumning out of the power supply. The easiest way to ap pinto thesis would be 16 filed worship power connector for haird distals has the power was need. Two lengths of cabib, or not diend one black, should be used for this and ore connected by as in Figure 5 flear was shown a haird disk connector but is sport floopy drive connector but as the fluid flear was shown as haird disk connector but is sport floopy drive connector would do put at swell in fact, if you, have a multimeter, you can take a 12VDC supply multimeter, you can take a 12VDC supply from pretry much anywhere you can find

Step 6 testing...

Just to be on the safe side, it is incur to be able to check that things are looking alright before proceeding. Using your multimater check the Afrilips audio Input pins for a resistance. It all is wall, you should have about 25K across the two inputs and a reading of all least 500 Christ from anch one to narth.

Repeat the process for the CDDA socket, checking first the loft and right together it is greater than 150 Ohme? Good Tho last thing greater than 150 Ohme? Good Tho last thing is to measure the value across the outputs. This should typically be high, or least 50% but don't worry about being exactly as specified. Different component tolerances will effect these reachings.

Step 7: kick it

Right, what are you wasting fan? If you've got this fau, let's plug it ell he and in y it o've! You'll need some software to play an audio CD and axamples are on all CUCDs. So get Kan and Barbe in that drive and crank ij up it was worth it wasn't in? ■ €imon Arche. New! The Eyetech Complete Guide to Towering your A1200

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The Big Switch

No-one knows axactly what the futura holds for the Amiga, but one thing we can be sure about is that it holds a change of CPU. Wa take a look into our crystal balls at the months ahead.

ince Amina for Jook on the job of bringing the now ageing Amlga hardware up to date, they have been laced with an unenvehily hage renge done Just about the only universal theme. they will have heard is the one we all know the 680x0 must go. What exactly they should replace it with, by contrast, has probably been the subject of more differen opmons than anythmy elsa

Since the inception of the Amiga line. Ammes have all been powered by a CPU as part of their 88000 (68k) range. The 68000 was the ore emment club of the early days. of the 16 bit desktop revolution. Loosely related to the 6502 class processors used in the Commodore 64 and Apple 2, it was the obvious slap up for computers such as the

Apple Macmtosh and Commodore Amiga that fol-

bit was a real buzz word. and the advantages to programmers of these processors was enormous There were far more data reorsters than mechine code Commodere 84 days had

Instructions sels were more powerful. The the older processors

before long the 7MHz 68000 in the A1000 and A500 was being rapidly overtaken. The 68020 doubled bus width soam to 32brs. The 68030 brought much improved clack speeds, going up to 50MHz

The 68040 integrated the floating point operation considerably Changes to the performance. The 68060 refined the process How do the rivals compare? AMB KE 233MHz Aloha 21164 266MHz Alaha 21164 533MHz Mins 85000 250MHz Pentine 208MHz PowerPCS84 200MHz PowerPC750 250MHz KEY:

widely available form. Processors from other manufacturers have by contrast been deval oped so much further that it is increasingly difficult to buy a desktop processor running at less than 166MHz. Even the fastest 68k faced with the task of binging the Amiga up to date, and first and foremost that means a

systems do As there are no 68k series

even further but naver went above SOMHz in processors that run at those speeds, this means changing CPU This isn't as simple as the next Armes around it because it won't be

The exact same problem faced Apple e few years ago. Having enjoyed a continuity infrastructure was in piece to see the end of the 68k series of processors and plan for the luture. The nath that Apple took was for

The challengers: DEC Alpha

One of the leading chesca for the next CPU has been the DEC Alpha processor, a high and 64 bit processor running at up to 600MHz. Normally used for high and workstation uses, it runs Windows NT and would certainly provide earlieus power

Pres: Extremely fast, interesting multi OS petential, DEC's FX32 amulation allows 32 bit Windows code to be emulated vary fast, although 16/32 bit software such as most Windows '95 programs won't run. Slamese Alpha has already bridged the gap. Coss: Ne cheap varion for low and models. Dubleus future - Intal have beught

into the Alpha technology, and commitments to development for five years isn't enough to ensure that the Alphe has a future as anything more than food for Pentium davalopment



▲ The ANO KI a Pentium comprisie Intel heater. Gateway and became to thred bookly of this chin and it

woold ove PC carmanikity... but in thus Amina chee?

Coldfire is a direct replacement for the 68k series of thiss in embedded systems uses. It utilises a more modern auchitecture for better performance. Pres: Very, very easy to port old software toe. Very cheep,

Cons: Toe slow, no high end models. Toe much work for minimal gains. Not really designed for the jeb and misses is many features important to a next general on CPU. s Low @Likelihood Low

The challangers: 200MHz+ 68080

Mantroned by Patre Tyschrachenko at Colomba

Pres: No incompetibility problems. All Amige activers would run at great speeds. Coss. Doesn't exist. The current Architecture is not appropriete for these speeds enywey. This story was the result of a misunderstanding. Petra actually pointed out how much eseis it would make life if such a thing existed. · Anniominteness: Very high · Likelihood, Hot

them the easy one. Motorole basel freen fast as a did on the top of the line 88040 twiddling then thumbs since dosigning the of processors using a fundomentally differ ent approach then the BSK somes. These are

Apple was exactly that it was the direct successor to the 68K sorres. Motorola wanted companies to move over to the PowerPC senes, and offered a lot of help to anyone PowerPC chin to emulate 68000 processor. released, they were able to run all the

Even with this emulation, the path from the 69040 Mecs of the time to the PowerMocs was a rocky one. The early processor running at around 66 MHz, e.

processor barely fester than a 66060 Even the high level of emulation Apple had devel-

much faster than the 68K versions dri on the festest 40MHz 68040 Mac Quedre I hat necple really started to see the adventage. Now with the arrivel of PowerPC chies in the much improved 603, 804 and 750 classes being the norm for Macs, even that emulation goes quite last enquah the front runners for the new Amrga CPU

It was only when the first few pieces of

There are plenty of dissenting vorces out There but the responses Al has had from clear majority in fevour of the PowerPC Regular readors will know that CU Amera has championed the PowerPC chrp m this for some time now, and has had some flak on this in the past I can ossure you that no-one Motorola, it is simply that from where we stand we can see baller than most how urgent it is we get a new CPU, and how appropriate the PowerPC chip is for the job

The idea of migrating the Amiga to PowerPC is not a new one Patro Tyschtschenko Tho president of Amiga International has favoured the PowerPC for a

long Irme and put a lot of The Escom days The ill-fated Walker was meant to bo qurckly fallowed by a

PowerPC card developed in co-operation with phase 5, but the colleges

> It is almost certainly Therndelves have mosted the nation. was extremely important to them, and there is no doubt that they

LIGHT MY FIRE



lave a sart -BISC HIRCARSO for the Assume aleandy the Persoffiches and the Preston pro-

◀ Phase5

 Hash over lay for the altra but and ProperPC TSD weth orderest. or Thus In the srchetecture substrict in months. una towards gyahtrty suredo



d Bistant and. sedan the Straughth, from the same stable an Alphu Usad re the Berlish Appen competers.

to see the Amica convert along with the rivol of actually being here elleady, and now slight from scratch. Pros and phase 5 have shown the way with PowerPC developments

PowerPC or not, you have to admit that have mg PowerPC Amigas here and now is the strongest orgument of all I'm going to stick my neck outland say that All almost certainly will neck the PowerPC

and whether you are an advocate of tho

as the next Amigo CPU. Ales there are more hard choices to come. In the unlikely eventuolity that Al do op! for an alternative CPU, the how should it all work?

exectly what Apple did and go completely over to PowerPC Doma this would require two major pieces of software to be written. an Emulator and a backwardly compatible PowerPC version of the OS. Gorna this route would mosn that all system legal Amics softmachines. A lot of 68K code would run rather unimpressivaly but with the OS fully converted it shouldn't be a problem. New programs could be written in pure PowerPC



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station llovs ch as e gap. aht entium ► A low end

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\$1 yes

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code and would have no bottlenecks in the system et all, allowing them to run at phenen

Interestingly for this approach developmonth of the emuleion should be reletively straightferward, as Meterele heve a let of experience with the process. According to centre in immers, an early unstable 88K emulator that runs on the phase 5 PowerUpcerds has been made. Unfertunately re-writing the OS would be a majer task and one.

which would celley the process apprillicative phase 6 here come gowth is neighbout feel price if sweeper publishing. The code of reliancing full compatibility with the code of code of the c

but le cenfuse matters. Huge & Partner have

release the rivel WarnQS system

The distribution of WhyrpD his benear our interested Cera and counted dearn from purties involved or eitherwise has made the marties commehal marky, but in estencio this gas 6 Pattiers delined the WhyrpD did the gas of the bashes is 5 publishers, only better phesis 6 Involvably disagree According to some unbrased sensions. According to some unbrased sensions where the second lost in light of the sensions of second lost in light of the sension control second lost in light of the second lost of the sensions of define both there are also seem fundamental define both there are also seem fundamental definences on eginnen on the lows propropulse.

Advocates et WarpOS are the availability of a specific Amiga Compiler, StermC, white fellowers of phese 5 peint out that the GNU C++ compiler that will function with the poclibrery and an expensive commercial product. As fer which is fester, no-one can say fer size in pill new.

It would seem likely that one of the major sources of desgreement is caused by differ mig netices of what is important phase 5's approach seems to point towards their evin luture plans - they befreve their solution is the only one that will allow the proper functioning of multiprocesser units utilising sext.

The challengers: Mips

A dark horse outsider, SGI Mips chips ere used in everything from Nintendos np to the world's fastest computer, e 64 processor computer besed on the R10000 processor running at one extend bling SPECIAT of 5704

Proc Good range of chips, low end models aveileble et extremely good prices Cons; Not e populer choice, more purely graphics workstation oriented then all round deakton promouters.

Appropriateness: Medrum @ Likelihood: Lowish





eral PowerPC chips at ence for birsterngly fest perfermance

Thes champering of the EEF bush formar, a UNIX standard or them an always on was contrally made with mere than had an evil to the development of their own Perings task / Alexs. for which is then core has Perings task / Alexs. for which is then core has the contralled bush of the core of the mere southelf formed her them are simple how if ever an extra training the histories of the house of crease patient exceptions. All the house of crease patient exceptions of the formed and the contralled and the formed and the contralled and the contralled parties a solution by confirmed the patient of patients a patient by contral training and the size of the patient and the contralled and the size of the patients and the contralled and the size of the patients and the contralled and the size of the patients and the contralled and the size of the patients and the contralled and the size of the patients and the size of the si

HBP make a pent el the ease with which StormC silews code cress compaid not note! WarpDS and even shewed a cress compaid from of Quake running el impressives speeds on a Powelly poed The metres tim WarpDS may have been helped by the fect that! Heage 6 Partner have been outriely obsurring developers whilst phase 5 have let the ball.

doop bit lately an developer support, some registered developers complaining that they have not yet been given the latest versions of the poc library.

Fortunately this revelop is not looking near-

ly as werrying as it was at first, phase 5 were neighly and understandably upset when they learned thet WaspOS and ppc library testos

The challengers: PPC

· Appropriatogoss: Very high · Likelihood: Very high

Follows the Motorola legacy A continually developing line of processors central to Motorola's massive Semicenductor business.

Pros: Good range of models at reasonable prices. Ultra feet versions in the the 1

GHz region in development. Good 68K emuletion. Perfect Mec emuletion e mejor selling point. The most popular choice. PowerPC in oftwere end her diverse elicedy exists. Likely that a lot of support would come from Motorole. Apple mey be moving away from PowerPC which mey open opportunities.

from PowerPC which may open opportunities.

Cors Batter price performance ratios do exist. Apple may be moving away from

PowerPC which may limit opportunities.

UD fo en ell

ould not be run without the muchine being reset in Between but Hearn & Partner tell as thet this rather major bug has been lixed and there is no reason why the developers which library they use if the two libraries can heppily work together

decide to go for PowerPC decide the fate of the two ivels. Several other compacauds have looked haid at

WamDS for their own pin jects but if Al goes the multiprocessing these solutions and make it official

No-one wants the Amiga Market to Iranone CPU should get in on the eqt. Amiga. software houses aren't going to write five

versions of all their software, but a huge interest has been expressed in male then one CPU plate not desimilar form of multiprocessing with some other CPU This is

n fact what we can already see in things like Pentium or Dec Alpha information amongs! others. Wherever the future holds for he

future, you can be sure of one thing it is going to be very last! # Andrew Korn

The challenger: Stalking horses

chance Processors such as the StrongARM, the HP-RISC, the Sun SPARC heve their qualities and their proposents. The StrongARM used in the current generation Acorn computers has a solid reputation but a dublous future for the same reason as the Alpha - It is made in conjunction with DEC. The HP-RISC has some extremely good enginearing behind it but is at the end of its lifetime with the Intel/HP IA 64 to replace it, and the SPARC is rather firmly founded in the workstation market.

The challengers: Pentium

The processor behind the PC much strengthened by the release of comparible rivels from AMD Cyux and Centaus which shave a lot off the price, and notably In the case of the AMD K6 which contains valuable technological adventages

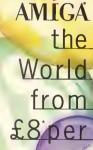
Pros: Very competitive prices, eble to run Windows software lot 100% PC compatibility

Cans: Poor performence, limited clock speeds, querter the number of registers available to groommers than most rivals, unpopulsi and a poor rate of instructions per clock cycle compered to modern fully RISC designs. An impopular choice. Why not just make PC clopes? Apprapriateness: Mediem to Lew · Likelihoed: Law

> ▼ Tech files meany RISC CPH's with a fot going for there - Silicon Grankies HIPS and DEC Alaka







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Amiga Forever

The title proclaims the intent: Amiga Forever! But will this commercial PC emuletor for the Amiga ensure its survival or toll its doom? We take a look at the preview release.

Price: £19.99, redeemable against full release

■ Publisher: Cloanto ■ Supplier: Weird Science ② +44 (0)116 246 3800

ou may well have heard of UAE, the Amina amulator II has wandered around in various forms for e white now, and has made if to PC. Unix and Mar. Emulation is nermally densidered ene of the strong points of the Amrga. but emulation of the Amiga by other computers has been fraught with problems

The Amipa uses a set of custem chips which complement the CPU While an Amiga. emulating a Mac need only emulete the code would have to emulate not enly the Amroe's

Emulator' LIAE has until recently been good fer playing ageing gamas at slow speeds Three I hings have happened to change that Firstly, the absurd power of medem CPUs mean that PCs are more capable of demo semethma like this

Secondly, UAE Picasan '96 Jumed up offering the eptron of retaigetting P96 screens onto the Windows netwo graphics system, which removes the major overhead. all emulating the graphics chip set. Thirdly, Cleanto have picked up the product and are marketing it professionally

Hot gossip

The anneuncement of the release of Amroe Enceiver caused seme heated debate

Clounte have licensed the Amiga ROMs from Amiga international, se for the first time. PC owners will be able to use Amiga emula-Hen without pirating the OS, in some circles, this was considered tantamount to a betray-After all though, ran t it dead systems that not emulated?

The enswer when you think about it is of course net. We emulate Macs, they aren't dead. We emulate PCs, they certeinly aren't dead. Emplation opens up new options to the users of an elternalive computer and surely if can't be a bad through all those PC users out there get a chance to try out an Amon?

Clounto have interestmo plans for the luture of Amrge Ferever, and if you went a



At the end

of the day, the

only people that

will buy this

product are ex-

Amiga Forever

for the

Vince Pike,

reel thing

pack, you can - thay've just released a preview CD Although lots needs inte a polished preduct there is quite a lot to look a) el-sady Cleante warn shout preview is released Amiga owners. shead of schedule to sat-

rsfy the " strong mieris no match ast expressed by users after the original Epic Marketing. This basically means

that the metallation is hepelessly breken m this early release. I fail to see how gaping flews with the installation were not addressed given Cloanto's nermally superb standards of presentatren

Luckly there's an update patch which mekes the installetron precedure work and quite frankly you'd be strupping, Ie say the least, wrtheut it. We got this just too lete te put it on the cover CD, but expect it there

ROM key-file After the patch, which is e new msteller and Picasse 96 driver Amiga Forever works properly end the emuletor can be feuriched from the start-menu es WinUAE Picasso96 and W8 3.0 which is the most useful games. Unitke previous versions of UAE let DOS end Unix,

WinUAE now has a front-end GU te sel up the vanous options a vast improvement over the conveluted command line switches

needed in the past. Interestingly Amilge. Forever requires specification of a 'ROM key frie" as well as the Amiga ROMs OS 11, 13 ROM images are encrypted and usaless for anything unless used with UAE end the ROM key-file

Anether imprevement in the letest WinUAE is that a PC directory can be specified as a hard drive - previously enly disk

States beings

I PC

look

strages and hard files (ala ShapeShrfter) were accessible. This new method makes importing of Amice files for WinUAE a complete doddla now that the PC can access the Amiga's drive. The hard drive directories that Amrga Forever Instal's are a stock (homble) Workbench 3.0 set-up albeit with Prosser 96 estalled for the native RTG.

Shis with a nroo well configwind Workbench Inc version Amiga 🗎 forwarded them a copy of Joe Torre, Senior last month's Workbanch hardware Engineer. 2000 feature! At least Amiga Inc. on the CD and, after the v1.1 patch, ran straight off with Prosso 96 emulation Hooray, a proper peint peckago running on e-PCI (Oh Cloanto, how about running ARoxx

Picasso 96

When running the Picasso 98 enabled version of WinUAE, the graphics go via the Picasso 96 RTG system to a UAEGEX monto driver which hooks into WinUAE to provide native PC graphics drawing nderstand? You don't nood to, the net tion is a hell of a lot faster than before, but sadly the CPU emuletion performance remains absolutely dire. Sysinlo reported 06 MIPs on my high end MD K6 225Mhz

Obviously without amulating the display chipset there's graat room for improvement over this sloth like score, slower then an A1200 with fast memory, Certainly PC emulators running on the Amipa are a very great deal more efficient than this! The future of

the only negative things I ever heard about Amiga Forever are about people who never saw it. I respect this, but I think that all users who have to use a PC at work, or e PC next to the Amige at home, for example, deserve the same respect. (1) Michael Battilana, Cloanto

What does it support?

WmUAE elso sports audio amulation atthough the AHI support isn't implemented yet. The author pamis out that there isn't a great deal of AHI support on the Amiga arraway and L have to soree it doesn't seem a priority I/O support is quito comprehensive - Mierrir happily fired up and got a nice 115200 baud connection to an ISDN. With browsers and IRC. clients ran perfectly under Picasso 96 Ion.

Version 2 is due to have full parallel support for the Weird Scrence Network PC linkup cable, as well as ethernel potrons. What it most collegably doesn't support is Amma flori by disk drives, a fundamental bordward problem. Users of both platforms can use 720K discs and CrossDos, but others may have difficulties. Some concern has been voiced that this could lead to increased piracy CD-ROMs can, of course, be read

I balieve in the natworking possibilities more than I balieve in the WinUAE amuletion because it kaapa people using their Amigas. Dave Law, Weird Science

UAE has to involve canning custom chioemulation and More books for native 80v96 Irbranes and drivers for AmroaCS, Bearcally WinUAE faces all the same problems of AmroaOS taking edventage of a foreign CPU just like the PowerUp project.

Just as imported as the display speed improvement, with Picasso 96 the colour death was just like an Amroa graphics board rethor then being limited to ECS' pathotic 16.

colour 'heresalution' display Yes folks. WinUAE only emulates an ECS chip-sat, no loss with Picasso 96 howaver since you gal higher resolution and deeper colour depths then even AGA offers anyway The ECS emulabon is good enough that those

old classic games will indeed play nicely on a nrppy PC. Even the ultra hacky demos will have a good go at running. It might only be ECS emulation but it's demn good ECS emu-Islan in fact I've used plenty worse real Amigas, certainly in the display department One pipple, it would be nice to be able to run Picasso 96 emulation in a window rather than full screen, this is only possible with the

An Interesting thma to keep in mind is behind that rather poor amulated 68K virtual processor, there is a real processor trying to get out. This leaves the door open to the possibility of multiprocessing hetween the virtual 68000 and the Pentium chip beneath The phase 5 PowerPC cards use this approach to get around the compatibility issue, and something similar could be done with Arriga Forever

Plug in possibilities

There is no reason why you should not run Amiga software which has plug-ins operating on the Pentium side, and this is indeed what



4 Arrest Foreses and the heat of extra files... Wurderen Ri gets ready to rau Workbench 10

Cloanto have planned for the future. Just as they have released the PPC blitter plug ins for PPsint, they will in the future release one for the Pentium. Although you won't get the same advantage (the Pentrum is already busy emulating 68K code while the PPC soft doing envilving unless you ask it having et least part of the code running natively would offer a significant speed mcrease

In Theory this could lead on to more and more improvements. It should be possible to Write more commonly called libraries in Pentium code to improve the performance of UAF With a Pantium netive version of Intuition and Exec, Amiga Forever would actuelly become quite a decent little system One can't belp wondering if Closin a have half on own on a sort of back door to porting Amroa OS to the PC. All this is spaculation.

Amiga Forever is certainly a step in the right direction. The core functionality is cor-Tarnly good enough to run a good Amina sysimprovements if it's going to tempt anyone to run applications on it full time. Coanto promises much for the tniure though, includrng a TCP/IP stack interface to Windows That means UAE can borrow the PC's internet connection Log.

That'll be very handy imaging AmFTP end Netscape on the same screen! If the luture also holds performance improvements and Amrga Forever is provided with a half decent Amiga system, we might have a real Amigaon-a-CD which could gain the platform new users Right now, it's a damn good try out Time will tall if this roule holds more in store for the Amiga

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Welcome to one of the most exciting Screen scenes we've had in years. Some huge gene releases await your delectstion, including two of the highest scores in ages. Also e report from the Italian games scene, and the usual mix of tios, hints end newel

Reviews

- E Enmo Italia
- 37 News 38 Defacaces
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- 48 Sward



On the games scene Italy (the coun-



Game

No-one quite knows why, but some of the very best Amiga games have come from Italy lately. Big Red Adventure, Shadow of the Third Moon, the amazing Golem... but there's a lot more. Massimo "Maxime" Marino of "The Games Machine", the biggest selling Italian Amiga/PC games magazina has the full story.

Т

he litation Amage market is going through a peculiar period due to general uncertanties about the future of ways theless italian users

Amga News-theleas Nalan users are keaping hopes alive, the first Planets Amga show (Empol, 22 Septomber 1997) and seventh 1918 for conference (Milano, 29-30 Newerther 1997) confirmed that our optimism is still high and Jassa Commiss are going to originate the 2nd edition of "Planets Amiga" in April following the popularity and althe softwarehandware sold by the companies present at the first.

Big Surprises

t try where Breathless, Shadow of the 3rd Moon, The Big Red Adventure. Fighter Spirt and Virtual Karting were boin) is planning severel sur-

presas in 1998

The most ambitious project is suitely Underground Software a Golem which you will have a lot more about before it gets released sometime after June, but the other games are put less important.

germa are not less emportant germa are not less emportant Darkage Software is trying to organize something like the F1 Liconariumes cercuit in 1494, and 15 soon to release a high quality abareware game palled Aliver a classic cacada bilaster with a fast and freation two players mode. The second Darkage game will be a Sega Rally clone — I heave just rested this 30 rous.



▶ Diefigieur from The Kent Diagram — Beat 'om up in mure thos 6008 colours

Aino ... Manu ali actusa charaverre biaster

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e Rally



A Driet Please Tessis from the Speaky Fellows.

ne and it's absolutely great! If R maintains corrent promise. Do you remember Fabro Buzzetti's Virtnal Karting? Well, Fabro fmished a Deluxe version many months ago



A Pazdo harnes - classic pazdo activo



A. Francus Zuro frum ... ur. Traumu Zaro

but he is still weiting for e ti deiden of vesomen Meanwhile The Spooky Oniel Please Tennis in order some deleve in development front of a PlayStation

4500 colours

Tieuma Zeto Leam is codino a nice and well policized Zero (original isn tit?) that features a PAL oversoon video resolution, more than 256 colours 1/4 poel of sprites, while The Real

going to release e playable. demp of Olohoht, a cool best om up that features

backgrounds, shadow effects end musics that follows the

progress of the combat. During the "Planela Arriga show, games they re working on Eat the Whistle and Except Towards the Unknown a Sensible inspired spacer geme and a graphic adventure respectively, the latter onemally

coded in AMOS but now completely rewritten in C langrage in order to facili tate the eventuel porting to other operating systems To conclude this short item about the Italien names scene, I would like to left you about the newly available Powerball by Skywerds med Mikro Mortal Tennes), a simple prizzle geme with 80 tevals of increesing difficulty

enough, you can create your editor) and the development of Bubble Heroes by Arcartra Developments en interesting Puzzla Bobble / mg shoot em up elements 512 polyurs lighting effacts, 64 pixel AGA sprites enimat ad backgrounds, super deformed anime style graph-

mo modes I think that's all for now! Mussimo Marino

Scholarship Odvssey

Scholarahip Odysasy / Perice Sprane, the developes behand the Votes a sensition roug gare 1 sid at Votes a Sensition rough a sensition

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■ Price: £29.95 ■ Developers: Team Invictus ■ Publisher:Sadeness ■ Available from: Weird Science

The confusingly titlad, Flashback inspired platform puzzler OnEscapee has arrived at last.

Does it live up to all the hype and expectation?



game with the near legendary plumbers, blue hedgehogs and high speed man stranded on an alien world. Flashbeck was the game that introduced the world to

the narrelive platform game in which thought is more important than reactions of the storvine

The niatform genre has since daysloodd along e rather different path Delphrie' Fade lead the way mto the kind of 3D adventure which has reached its apex im terms of populanty, at least - in Tomb Barder The history of computer gaming has lall if to two Hungaren friends, Akos Dwansky and Tamas Kozak to bring the 2D platform puzzier min the fest years of the 20th Century games of the past is that they have done it with an impressive degree of craft.

Bladerunner

The first thing that you will notice about On Escapee is This mitro sequence an impresgively atmospheric. Bladepunnerestrue piece All to often intro sequences are nothing more than a short, melevani animalion that of OpEscapes OpEscapes turned up in the

The latter has an abysmal rendered miro sequence quite at adds with the well executed cartoony graphics and rather excellent game which follows, while OnEscapee's intro sequence is a superb prologue to the nametive of the game Like the in-game graphics, the introis mostly hand drawn. If udda maadiness

The plot is curtainly very citched - also visitors abduct the hero for reasons unknown, he struggles and the the fiver they are in crashes. He survives, but must now escape his mystenous almin enemy The direction, however is superb. The cut. scenes, the clever effects and the dark soundIrack foreshildow the game beautifully - stylestically so similar to the expenence of the game that it all segues into the first screen seamlessly

Although the plot has strong overtones of Flashback and the character animation is simpsi identical, the gameplay solucily has rather more in common with Plashback's

predecessor Another World Delphine's ear fer offenng was less of a platform game (II) was not entirely succesful for the simple reason that the more varied pameptay style meant each level used a lot more memory. compared to the more homogenous gameplay of Flashback and as a result it was far too short in the ere of CD-ROM entertamment storege capacity is really no concern dard moves complemented with a lot of dynamically interactive extras

It would spoil the plot to give away too way the gameplay flows. I'm going to have In play through the whole game without help, skip to the box enisted "In the beamnmg" I'm only going to reveal inough to get you through the first couple of moutes of



A Ridley who?

ma the puzzles in enviadventine geme. I is an incredible balancing act - make everything top intuitive and the game is Loo make if Ico obscure and the game is key Island gemes, or Flashback/ Another

ld are respected to this day is that they Anyone who s played one of these demes gent hause on, any to discover the solution eas something so litational there seemed to be no reason to try it. It would be a worrying tions if you didn't onlist uck in OnEscape therwise you'd fly through the game far too easily. Indeed on one or two occasions white skirving OnEscapee I did goll stuck, end no soubt envone else ploying it would find the same If perhaps in different places I supse only time and the countries of thousands 4 players will decide for sure whether Team number have achoived this well enough to servate OnEscapes to the level of the other ogic the balance was extremely good if not

As I got into the logic of the game and made my way past the first few levels. I worned that those wouldn't be enough of the name to last Luckily as the name progresses also gots more complex. The first level has only a handful of screens, the epic city level has something like a hundred. You may think

the pame is passing too quickly, but look at your watch and you could find that you've chere than you thought Like ell games of this type, I'm sure that once you have finished playing you I be a little disappointed that there an Emore, but even when you know exactly how to solve the geme it should take a lew hours to work your way through Certainty I spent more time olived the

man is usually spent on a game being reviewed, but even with seve positions handly provided I'm left with ereas unexplored and Dad guys as yet undefeated. I'm sure I will be back to finish this game in my spare time! A ast, but are something I remain ambivalent about I imagine getting stuck on one for too

Nice Icon

nEscapee is an impressively well produced Newton of the Logo with a dipp shadow. levely with transparency on The simple but zeaful text file is present in a huge range of languages - this is the first game I have come across with instructions in Fairs - and is present in HTML web formal also HTML pages are likely to be the multimede replacement for Amigaguide documents in the next generation A Workbonch, so congratulations to Sadeness

The big congretulations should be seved hal has gone into OnEscapee Playing the game is quite an experience. The graphical



 Jest some of the Smoth SCEOULF YOU got on name taker of BeExcases. I bear that Thomas Cook each tousing their ress

design of the game is simply superb, and the music beautifully integrated and totally almosphene The game is picked with clover graphical tucks, not unlanguated back

... sreft sent by your mysterious enemies

the player such reflection of the main char acter in the nepting surface of the water came and do thou inh well, the innumerable death sequences making a particular impres-

In the Beginning... to zep you. You are bemmed in, by e

fence on one cide and an electrified pylon on the other, if the fiver cetches up, it files a beam of energy at you which knocks you flying. Let it hit you a couple of times and you die horribly. Let it hit you once, in just the right place. and it will blow you cleen over the pylon, You keep running, and after a while find a downed car to chalter in. The flyer comes over head end charges up its beam, leaving you just enough time to fiee before The cer is blested Fortunetely for you the bled hee opened up a small hole in the floor Run scross this end you fall in to safety in the cave below, you see something on the ground glinting - a sure eign of something to collect. You walk to it and pull the joystick down to pick it up. then welk further into the cave. Henging

fronds block your peth, so you pull the

joystick down to crouch, then tap it to

the right, carefully timing your horo's roll so he passes under the thrashing plents You pass a shedowed crevice and into the next ever where a panel in the wall spansars to have an empty speket in the center. You welk to the penel and push the joystick up, causing the character to put the object he picked up previously in the slot. Beck in the previous chamber, the striplishts have powered up and illuminate the way into the crevice You oneh the joystick up to welk into the

screen and enter another cave. Here a moneter hengs from the certing, blocking your peth. Those hage jaws look dengerous to pees, end sure enough beneeth him is the rotting corpes of an unlucky traveller, the bones being picked clean by e group at cave belle. Edge carefully towerds the corpse, and as you disturb it with your foot, the bets fly up . now meybe you can dip past while the mon-

ater is distrected by the bats?

I the ston strate the to have desperate

nemory

Ihoul utes of



A Teo duath score from the boseins lads.

son on this reviewer

A menu screen allows you use a sightly laster game file contains a screen grab of the point removes the old problem of remembering why on earth you called one save positron Squid3 and the other GOB. There is support screenmode selector to allow running the game on VGA only monitors

Currently on AGA equipped Amrga is nacessary, but Sadeness have told us they will provide a free upgrade patch for graphics card users in the near luture along with another patch which tweaks the character control method a little. Personally I liked the way the controls were configured but appar

Technically OnEscepes impresses the way e good demo can catching you by surprise with a little graphical trick or clever affect. In purely game terms it is a little flawed. The control is not quite as responsive es il could arons be pretty finicky. Once or twice I had to

Fina... but who shot who here? Just a littie proof that it ran't ell pazzles

repeat my actions something done but the only time this really stood out was when I rather dodge a lighting pile of

row because of something I

hadn't twigged about the controls. Once you have learned the decularities of the control method This will fade to a minor niggle - you will antropate the shahily not end up at the bottom of e chesm so

I seem to remember Fleshbeck suffered from this problem too. One saving grace is you can restert quickly right in the thick of whick at the problem straight away

Worrying Anatomy

I have to say I am very pleased to see a game strengths. Going for the 2D hand drawn look Team Invictua have produced something that about the horsepower of the CPU. If you lind

imperfect, and more noticably so just because it is hand drawn it is elter all a lot mete 2D entwork. The backdrops are ell gorpeous bul some of the enatomy workes me I am perhaps over sensitive to this having ures myself, but the character is not always correctly proportioned

On the other hand the highly ecclaimed rendered cut sequences in Tomb Raider display a shockingly poor grasp of kneads and a very leable grasp of human physiognomy and I'm not just talking brasize If the rew draught smenship is merely very

One what?

lust to make it clear to all the confused people out there, the game is called OnEscapite, pronounced "one escense The citernalive reading of "on escapse" is just gibberish, while overtones of "on ascept" mey well have been intended Just think yourself lucky that the cheesy working title Dmems of the Future was drapped!

excellent I know I've said this belove, but I say if again OnEscapes is a real expensi It isn't what we ere used to following a rather more sophisticated aesthetic than th average gams, more Luc Besson than Lara Croft I guess some people will be turned of by that, but personally I love it

On Escapee is a game you can load up and show to anyone used to Pleystation, Nintendo oi PC games wilhout them won cup of tea. They are likely to be intrigued On Escapee is perhaps more suited to the epithet flawed masterprece than restant classic but those llaws aren't brg. The game. well deserving all resurrection Il you like ad lon/edventure you ere

almost certainly going to find OnEscapi excallent nurchase. If like myself you thought that Another World end Founde much time reading this review and you irofil now =

Andrew Korn

ONESCAPEE

Mathesch region III Marshar of dicks.

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cares when it's this much fee



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Television results

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What more can be said about the best-selling CD-ROM game of all time except that it's finally here?

innumbes the exchanged in the air when the hose Myst demo was shown at the Monteet Amige Convention in the summer of 1896 - on a PAWS portable Amige loss. The providing proof as we stood them and boggled was that it must be a hose. But at the well weath ones to the summer of the su

has mede Ampa Myst a reality By now, district menoths of baidup in this reapparts as well as the years of coverage in the popular mode, evenybody has at least a vegue side of what Myst a sill about 1% soons sur of graphical adventure. The sparan documentation sort much help either —it's set to say that the box tells you more about the actual, purpose' of the games than

half later ClickBOOM's development team.

Part of the purpose of Myst is that it's a gene of exploration it wouldn't be unlair to say it is about solving a mystery or two. That mekes it unlair to both of us if I give you a complete plot surmany, but it is worth know ing that the experience of Myst revolves around a man named Asus and his rather.

"But it's just a slide show!"

If you REALLY Insist on treating Myst as a skideshow, go shead. Open up a graphics viewer and just go through all the pictures on the CD. There's no spe-

cist encoding to stop you
I gustantee it'll work. Then, when
you've worked that out, double-click
the Myst scon and play the game. I
gustantee that it is a lot more lun that
wey.

Atture as an oved acholes and scennial: - a twopressistance man Nis offers and of a spoot book that it melaling you test like you in mit and terrary time and places - but Affairs books had to be a spoot of the spoot of the spoot of the Table how you a spoot of the spoot of the had been a spoot of the spoot of the spoot of hydric a consectionable has belief in Affairs and most of his books - but some marrow, when a his books - but some marrow, when he is not a document by you can proport you to other lands where you can poot together the information and worksome you can poot together the information and worksome your can poot together the information and worksome your can poot together the

Information and enderbox you need feet requit, he place, you have only not provided the property of the property of characteristics. The sulmants GUL United the property of the property of the property of property of the property of the property of you can poly up and for very property of you can poly up and for very property of your own property of property of the property of property prope

What's the fuss, then?

All of this might sound a be deviction to you or at the very less to thoring that should have mide millioneries out of it as authors. And III warm you pain new - for the first live minutes you pley Myst; you may well come to that conclusions (Citic Knoward, this paid citic to what it was a simple proposable of the growth on open mind, if is entirely likely half you from minutes of the conclusion of the conclusion programme with or payment from your paid of years apply and when I gost the ConstROOM proposed but their I sat down. cleared my schedule, end gave Myst a real

chance
Then I started to like it it really started to suck me m - not quide so much with the graphsts, sibroyin they are not in the started to result of the started to the

It was Afurs himself who put the filterable clusters on my conversion. When you find fix writings and records you really get an insight in the men, and why you should feel compiled to do what's eight in his name. And there is not mand free as not made in a general you deriv. When I of read he with and swarmed his and there is not much in a general you deriv. When I of read he with and swarmed his continued have been as the swarmed his continued has been as the swarmed and the object and books. I substably white a certain page of loss and disapportment when all pot wown hopelessly destroyed pages. Myst has his hung wery of making you care about what's a going his

Cit course, the sound and musce sent speng to the quite enough to be seen you playing for house and hours. That is where the much lauded agenther come back into blay No. If a not like playing in a fully detailed. 300 degree 30 world You will faul, as I did, that sold segme 30 world You will faul, as I did, that sold have been contained and smight cart in a congested was forestable to be so contained and smight cart in the congested was forestable than sometimes gets to get a when you want to be a sent forestable that sometimes forestable and the sent sometimes and the get a when you want to be a sent forestable that sometimes forestable that the sent that was a sent to be a sent forestable that sometimes are not some that the provise revealed to some way engineering engineery. Again You







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playing ill much No it's gels to

t when sages

r treated

can't expect every intermediate "going down the story " shot to be so shapi to work of Ed. Must where you should allow yourself a nce to say "Wow. That is really men." before you start dicking away like mad trying

The worlds of Myst you will visit have ther own internal logic as does the game Discovering that logic is another part of the soy along with being an appreciative speciafor The gerne really does make you think On Myst means that if you DO get sluck, help is Sever very far away

The Amiga implementation

OuckBOOM's conversion contract that the orginal, and to that and as much of the ongcal's source material has been used QuickTime while perheps not the optimel hoice for Ammas all things considered is used just as on the PC and Mac versions for he in-dame enimations. The graphics look the more or less the same - I was sent a PC firm that the Amiga version does indeed heve

nicar mages m soma scenes The only real difference is that to start the video ere properly configured. ChickBOOM chase to use the AHI retargetable audio sys-Iem for Myst - if you don't already have this deteils for you. For video, you must first select a screenmode bufore entenno the ment with the most ettrective (Super72 or a Double-mode for example) in bigh res laced/noflicker end reduce to regular NTSC or

PAL if your machine is averly sluggish. You have the option of malelling venous









an an ACA duren and Pana hottur if you're not - 24 Jul DriverScoot X not see of You've

el Mont

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ambabb anthoroid by now that the gorio gets ds name from the amendry bazz that elanks the estand

pieces of the Myst CD to your hard drive for optimal performance. In the most extremo cases, you can copy virtually nothing but the executable or essentially the entire CD I found that ender lost sync with animated speed CD - if this happens to you experment with installing more deta and relying

CyberGraphX support was and is planned for Myst but in order to ensure Christmas delivery it was left off of the CD for final bug testing. A CyberGraphX executable was not

available at the time of this review, but will be on ClickBODM's wabsite shortly What does this mean?

The errival of Myst on the Amrga even when you ignore the time that's elapsed since the rest of the world got it, is certainly e major event. It's brought a legitmately empyet/si imagine what would have happened just a

> BAM AGA or the streets() in sendus over meking next project,

ing e return stream tagits macy for the

Amiga as a gaming platform?

The jury is still out on this one but from Produces of the Arrage part of Myst, it seems clear that we should consider Myst an exceppiqued the interest of a developer (Cvan) and deal could be worked out. Similarly extraords nary proumstances played a role in the current Quake discussions - the profrestion of technically illegal implementations of Quake leaked once again got a lot of attention

As much as we may like to think so, porting eigeme from the PC or Mac to the Amras Amiga programmai in Sweden. Any project of Amiga Myst's megnytude requires, emong other things, extremely strict quality control So, despite the best intentions of PXL and

other eggressive Amige publishers, it seems that while some doors have been re-opened there is not bound to be a full fledged re-invafew years. What is still the most important fect is that Myst is now here. It is what it has breaking game. And it's ours now, too. Jasen Complon



▲ The globary atmosphere yets even durker as you gradually uncover the success of the your



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Final Odyssey

■ Price: £29.99 ■ Publisher: Vulcan Software © 01705 670269

After a short stack of mediocre floppy releases and the announcement of e formidable stack of new games. Vulcen's shipping depertment went rather quiet... until now.

h The Impust of detail in Boat Odvecer is improxume. province that the nations are al 20 seets description is for from dond



he company restructured a brt and tapped Weird Science Le. same advantages freems them up le have mere time te pursue and prod their pregrammers te finish games

drepped, seme mere added, and new Vulcan seems to be on e rell again. Vulcan Following the recent Uropa2 from Austex Software, they we turned their sights again to the southern hemisphere and picked up Oxlander Peter Spinaze's Final Odyssey, the next entry in Vulcan's CD game series

Come sail away

Theseus For years your geople have had te send young girls le their deem et the hands of the svil Minotaur in order to placate him But after a time, you get fed up with the sensaless weate of se many virgins and set eul not to pleaste, but te pummel the

Te de that, you'll need to make your way Through his insidreus Labyrinth Yeu start armed only with a reliable but unimpressive crossbew and must celled mere weapenry. evold traps, selve puzzles, collect meney the and lies the Mineteur

Final Odyssey could be considered "Alien Brend Goes To Valhalls " ellheugh the action down to the baddles that jump out of the fleer at you. The action is a little less non-





it's actually possible to get a

After all The Minetaur is en The delensive, he a perfectly willing to let you wear yourself out scrambing around shoeting at geblins and there's a very Breed inspired 'Defuse The bombs befere time expires er fese e life" subgeme to centend with

As yeu travel along, you'fl alse encounter scrells left belvind by these whe have toad and failed to end the Minelaur's reion of terror They usualsome ere warnings er ether bits of

Vulcan e tredemark has slways been in digitized speech, and with their dedicates to CD-ROM you can expect as much of it as possible Surprisingly most of the speech is confined to the online manual, which shows up on the screen and is dictated to you in a rather pleasant female

Unfertunately it's actually a bit distracting and only slowed me down in trying le read ward to class your eyes and let the dreamy verce tell you all about the game, you re welceme to I was surposed that the ingeme text (such as frem the reading of scrells) was



Battling it out

Free! Odyasov plays m a top-dewn 3D view. with brightly colerful graphics which have been given a great deal of detail. As Theseus you have to get m, arm yourself well enough to take on the Minetaur, and

eventually find him, semewhere on Level 5 In addition to the mensters that get in yeur way, there are a limited number of cretures you can pleasantly interact with askir fer miernation and getting essistance along the way You'll want to check out the manubefore playing to get the definition of the icens used in the questioning precess as

Juestion 1' and 'Question 2" are hardly illu-

was pleasantly surposed to see that I Odyssey doesn't get easily caught in a of 'sameness' Maze based names can es about what's behind another bland cor

So you can plan out how to disaim the night traps in the right order and get the really no such thing as a good strategy for the puards in a hadoe maze and disaming the Despite its origins in mythology Final Odvasey pulls a lot of inspiration from

regro, present technology, and even some stare technology There are hologram walls teleporters, boulders that turn into bad guys. and a here's arsenal including a cham our end numbs. Sather then seeming smally like an ninspired author reaching for lots of cliches,

tiell comes together monly mithis offme rosebow bolts stick in walls and stay stuck or quite some time (rather than simply disappearing when they scroll offscreen) the as they poze towards you, and brightly ploured intation turrets shoot fueballs at ou with deadly accuracy

Giving your all

nal Odyspey esks rether little of your Amigs short of a double-speed CD-ROM drive 2 maps of BAM lany sort) are required 1 med hip minimum, ECS and the 68000 are supported, which means even a Imping A500 can hendle the game. No installation to HD games there. The oame has a healthy allotment of 10 save slots

This is good, because the real challenge. or ammunition management faithough you should treat bembs like gold) or in tinding the right soul to help you out but just in livng long enough to get to the end. There are so many little traps in Final Odyssey - en health and eventually your extra lives get whittled away before you know it.

The mens in Final Odyssey can pet to keep a pencil and paper nearby - usually you are rewerded for your explanations fairly quickly and don't need to do an mardinate amount of backtracking Transitions between muze acreens (they acroll up to a certain point, but you enter different regions from time to time) are nice and snappy but other changes (like altering the meze due to flipmaze if you tail to stop the bombs) suffer from the 'extremely long field illness I've sron of Civilization. It really breeks up the



A Departe the eld fashioned tou-down approach the graphics still stand out as coat and stylish, instautively potent the name oboon the likes of the Volkalla series.



Breaking conventions

I've played a lot of games, and it's nice to see that every now and then an author will mete a break with common gaming notions in Final Odyssey, as you collect food to bonet your health, you can actually up above the top level of strength and start. working on enother "life" worth of health

I wish more game designers would consider this - it'e headly less reclistic to think that you could start building enother "life" then it is to have multiple lives in the Frst plece, which Theseus certainly does

Spineze broke enother rule, but one i'll have to condemn rather than compliment him for The moneters chese you, typically with some less than steller Al - but that's not my problem. My problem is that they chose you at exectly the same epond that you move it's not such a bed thing if some of your enemies are your equal, but from the days of Pac Men on. It's been a well actablished lact that speed differentials make for

As it etands, Theseus can fice most trouble - the monsters can't gain on him, and they have to stop to fire a weapon, so unless you get outmenoeuvred, the monsters ere less of a threat than they should be. (For the record, Pec Man was slower on streight eweys but fester on corners) I wee disappointed when I realized what was going on.

rhythm of the game

Final Odyssey is a healthy emount of tun to play it a visually stimulating, with adarewards as you progress through the labyanth to keep you hunting for more. It s a little disappointing that there isn't a greater variety of monsters to froht or that the CD-ROM wasn't used to greater advantage, but in all, especially considering my lack of appreciation for paper-and-pencil mazes. I had a great time. There's enough arcade. action to go around without becoming a straight shootemup, but rt's by no means

"cerebral" Peter Spreaze was e one-man bend as far es the creation of the geme is concerned end as far as I'm concerned he did an overall and attacts man. Where these one-man. teams always seem to have trouble is their 3D work, and in this case if just in few shots had been cut out of the 3D intro movie it geme as e whole

the game has an ennoying habit of slowing down when too many mansters get anscreen at once, regerdless of the speed of rism would have been appreciated. Askle from that. I visid to the colossel effort com-

release. It's done a good job of belancing em one of the most stalwert advocates of high-and Amigas you'll find, but on the other hand I can appreciate a well-done lowresource job when I son one. After an uninspiring launch to the senes (Strangers), Vulcan's line of CD releases have indicated some very good things for the future, and I hope to see Peter Spriszu share snother view of another world sometime soon. Jeson Compton

FINAL ODYSSEY Miterature of distance Ch-809 2886 Blank disk autobalder "Ibil. mpressive staff, reminis

uld Bitman Brothers fore

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uning soon from Sader Software, the ultimate Amig CDROM games

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ng for room Cooper (997, on Ex

for five sease. Cross from one frequency in a season of process to Action intermiting games!

The process of the first part from the contract of Persia, Another World and Flashback along with

The process of the first part from the contract of the process of the contract of the contrac

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WENDERTS Any Assign & Mag RAM minimum. Double-speed COROM or before, Graphics card support planned for the lature.





Full atmospheric digital music socret

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n Do-upure assembly language
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Sword

■ Price: £14.99 ■ Gevelopers: Serio-Comic ■ Published: Titan ■ Gistributed: Epic © 0179 3496988

What do you get if you cross Bub and Bob from Rainbow Islands with George Formby? The main character from Sword...

hen I haard the title of this game il conqued up many mages m my mind Would it be an introcate role-playing fentlasy edventure, or a mad hack and eay bloodbarh? No. Sword am fact a pile-form game Swords basely get a lock in Two-dimensional blattform pames have

woo amenisone pautorn games new been somewhat out of fashron over the leat lew years. After ell, why heve Mann Amer when you can have Tomb Raidel II? "Owwever if in I bege ratro times where Benes are back in fashron for the tenth time in as many years) you still crave for the clid days then read on.

The story goes that you, our hero have been sent on a quest by the King Your goal is to firm dome mythical aword, hence the sale. Armed only with your wits, and what rain beat to described as a mechine gun, you must battle your way through venous levels of fleendish traps and victous monsters to achievely our goal.

Quite why the sword is so important to the King when he's got a mechine gun in his eisenal I can't say. But the result is that you can dispense death in rapid bursts, so who am I to argue?

and the collision defection is good, so yell

A Sweet pits you against an abount animated empty of supply respectiveness lies

rarely find yourself erguing with your monitor about the validity of your character's death

As you progress, the lavels ofter some different chelinges, as well as the usual array of dengerous leaps and troublesome nestees. I percusiarly like the underground levels in which your path is fit by a little glowing aphere which rotates around out here, illuminating only a small section of the screen - a nece touch.

On several levels you are challenged to stay shead of the edge of the scroen, which theses you relentifiestly easing death on contact. In a similar vein you may also find yourself fighting your way out of a rapidly fleeding cove system.

What about the gameplay? Sady, good presentation is not enough to make a good page. There are other faulties

auty, good peaner There are other features like playability to be considered. One of the hardest things to get right on any game is the difficulty level – too easy or too haid and you can quickly lose interest.

There is no puestron that some may find.

There is no questron that some may find Sword just too difficult to bether with it, requires a fol of patience to get any distance with this game. Lives and indeed whole games can disappear rapidly. Learning from your matakes is often the only way to get past cortain heards.

The palemen needed to get you to the end of level baddes in nothing compete in the end of level baddes in nothing compete to the simulation of the third in the end of the end o

No sneaky bits?

Another fundamental problem with this game is their it is use too linear. There is only one rouse through each level, and there ere no short cuts or other sneaty extra bits to keep you searching. If you receive in part, which you can't negotiete, you may find that geving up is a more tempting option I han westing your file away gettling it right.

Fortunately you have plenty of lives, and any baddies you managed to kill with your



previous file do not return to havel you. After you lose you freel life you can continue your girner from the start of that fevel, and there are always for file to you for you from having to flight your very through the early levels revenif mey build be girner. Having rooms or locations which can be varted in the order you obose as in Store Having rooms or locations which can be varted in the order you obose as in Store Haven your objects are stored Joyling the gener despite being stuck at a particular point. As for the music on option to journ etit would be a bonus.

Overell, this is a well designed, chellenging gene. The enhalt on a smooth end there is enough varietion between the levels to keep you wondering what the next one will be like, provided that you can be bothered to keep oning.

Despite its many good features. Sword really doesn't have anything new to add to the platform game genie. However, if you have plenty of time on your hands and ere cremm a fix of platform action. It's should have anough to keep you entertained.

Jonathen Brocker

SWBRD

Nice try, but in the end Sword inst deasn't suite out it.

78

A Wake no mestake, that's a unaching gus not a banjo And you are going to cond it if you woust to get past that toy larght! Abb, the beady sorroulous at it all

Tips Central



Tips time again! This month we got some free labour from Dave Stroud who foolishly volunteered to type in this little lot, just for the honour of making Andrew Korn a cup of tea. Opposite it's Adventure Guru Sjur Matheson.

James Pond 2 - Robocod

Those celeur-blind fish-laving platform-obsessed souls out there whe still play James Pond 2 - Robocod may be interested to know the locations of semi-secral memory.

Play the bath level and immediately alterwards, drep to the bettem of the castle and walk left to the stetues of the snowmen. These will turn into a moving platform when you jump on them, and you will be transperted to the top of the screen. Now walk left into the air and jump.

plenty of banuses if you go back to the snewmen after completing the cross level, and jump on the snewmen again a platform will fleat upwards and take you to a tunnel, where even more benuses can be picked up.

Championship Manager '93-'94

Fellowing on from last menth here's another trp for Champienship Manager '93-'94

Maneger '93-'94'
Select 'New Game',
'Tranmere and
'Arregant' befere calling
yeurself 'Mr Bulgana' end
then you will find yourself
rothing around in tests of
money 30 milline quid to
be precine



James Pond 3 - Operation Starfish



And for these Jenses Foot dense, be when see could't not entology to when see could't not entology to the depide orange places secret agent and were suckneed into also buying James Pend 3- Operation Startish here are seeme cheents that sheuld make your upb-quo enthyphenistrat life a full of a lot asser the a full of a lot asser when the seemed in the seemed your game at my time and UNICLE ROGET to get or saige from the programmer. Alternatively deed.

Super Stardust Type in your password as any of the fellowing se you can get

35 Irves and full weapons

Zool 2

If you he led up of starting on level ene all the time (and let's face it whe wants to de that all the time?), fry typing these codes men the fittle screen to be immediately transported to mere exotic locations.

Level 2 SESAME Level 3 RONSON

Level 4 FUNKYTUT Level 5 HISSTERIA

Level 6 7SLURP Level 7 PLUNGER

Wendetta 2175

You say temayto I say temarte, you say temarte, you say Wendetta I say Wendetta Vendetta Vendetta, And now I seme level codes Level 1 CACCT2P Level 2 UADCVXW Level 3 FAFWTUR Level 4 TARTCUP KARTCUP ANTON

T

You need help

any game - or you have some tips that you'd libs to share with your fellow readers - their please write to us at Tips Central at the following address, remembering to mark your envelope Adventure or Arçade accordingly: Tips Central, CU Amiga Magazine, 37-39 Millharbour, leie of Doge London E14 972.

Adventure helplin



Wonkey Island 1.

I'm stuck on the ghost ship as I don't know how to get the online that Also how do I go through the

The read ellip from CU Amigal adventure helpline end it said you should use the groot on the latts to make some sort of grease for the door But, if There are rats I can't. Find thom: Please, help me?

Chris Wstkins, S. Yorkshimi

Deer Stuck, The first thing you have to get, is the key hanging on the well in the captain's room. Try using something magnetic Then you head for the room with the chickens, and open the hetch using the very key you just stole. Climb down and you're in tor a

creepy surprise.
Try serving them a drink The rest is easy, so I guess I can gratulate you on completing The Secret of Monkey Island

Simon the Sorcerer.

Please could you tell me how do t get in past the door outside of the Yower of Doom in Simon the Sorceier 1?

Louis Sheneken, Ireland

Well Shanshanshan, I see the tip from the December-issue helped Well. . «nough chit-chst. To enter the Tower of Doom, simply drink the poten you should have in your inventory if you don't have it you need to visit the swemplings house, and on down the trenden.

Fix the loese plank with the nsil, and you can reach the scull. On top of it there's a plant called frogsbene Collect some oi it and give it to the druid in the city, in exchange for the popun

Monkey Island 2.

Could you please give me some assistance with MI2. I'm stuck in tho room with the lights out end cannot

find the light switch
If you can help me with this I'd
be very grateful. Also I've noticed
there's a MKS out on some formets.
Do you happen to know it there is an

Nicole Borrill, Rotherbern

around.

The essistant enswers... The switch is there! You should be able to flad it by moving your pointer

To nerrow things down a bit, you should concentrate on the right side of the screen, and about half way up. or down it war! severe Monkey Island 3 on our down a might don't know There was a small runnour some months.

sion was under davelopment, but I doubt it. It's

ego, saviso e PPC ver-

ment, but I doubt it. b
We can still hope
pthough, 'cause Mill b
saided on top of the
ClickBoom survey, askping what gemes people
would like to see to
their Amige Another in
solution would be
solution would be
solution would be
shapeshifter and the
Mac-varision of the
game, but you'd need e
perety fast amins to do

Willy Bearnish
Dear Helpline Please
hillp me, I'm desperate!
I've boon pleying Willy
Beamish for some time
now, but I carft rigue
out how to get iid of the
betvestter-bat on day 2.

Bert Simpson

Hello desperate. Head for the bathroom and pick up the halrspray. This can be used to slow the bat down. Next stop is Bisenaer room. The act should be pleying with a mouse. Take the mouse, and don't can a shout spoiling he swening for the cat. It can catch enother one Run down to the living room and sprew the bat. before dickling on

the vecuum cleener you'll find yourself hiding behind the sofe. Place the mouse on the table, and you have beit. Use the target mark on the bat when it starts ettacking the mouse, and you'll at least live to see day 3

Operation Stealth. Can onyone help me? I can t find unything to do in the office of the palace. Please help me!

Fred Flintstone

It's been quite a few years since I played this game I didn't remember what to do myself, so I made a phone cell to the owner of the pelace and asked him.

He told ma you could try operating the arm of the status in the lower right corner of the room. A safe is then supposed to appear but he wouldn't give me the code. He only said you'd need some kind of box, and mentioned he hed lost one in the bank some time ego. If you hed such a box, you'd have to operate the on/off button to the first switch on it.

Then you'd have to press the up/down errow until the first light on the box lights up. Next step would have been to operate the veilidation button on the safe, then repert the complete operation for the next tree lights, turn off and take the box, and then press the veilidation button again to open it But that was only it you had such a box, he read leavehing. Jeffore he hund up.

Lure of the

I ve broken into Teidg's place and lift the apperal us, but I don't know how to make the potion or where I o find the Ingradients. Need your help betty.

Earthworm Jim

Help is near. All the enswere ere right in tront of you. Read the diery and then examine the apparatus carefully. You'll find an oil burner, a flesk, and a tap.

Use the tinderbox on the oil burner, and then the flesk on the tap. Your problem should be solved, and you can start the quest for new ones.



Plenty to be getting on with in this month's Tech Scene.

including the fascineting Distant Suns end a remarkably neat end ingenious A1200 tower solution, not to mention a round-up of mice end a couple of new Atari and Apple emulators.

52 DISTANT SURS 5.01 CO brown enterers with the new ES releases of the classic

66 APPLE TI ENULATOR You can assesses just about any personal computer on year Assism. How about the Apple 187

SA ATARI DRO EMDLATOR Bun't tency the Apple II newleber? Maybe the similarly asets fo Atoni BBB is save you style

EN PRINTER TOWER With lights pleasing this a Smithern passonship and it string of inversations on offer, in this the

IMPUT DEVICES nt desiran for an extension yers polds

BA BLITZ BASEX CO Must do you get the like Rasse programmer who has concepthing? A CD with off of it southy pursuged

84 PB SCEILE More chasp and from Amigu antertainment from that curic place they call the PO Scene.

PO UTHURES Here chasp and free Assign with ties from the ... no, that's out going to work is it?

72 ART GALLERY Pictures and, frankly, more pic-layers from the curious lot they can the CV Assign understop, le yuvon in it this menth?

Distant Suns 5.01 CD

■ Price: £29.99 ■ Supplier: Wierd Science Ø 0116 2463800

Space... the final frontier. CU boldly goes where no Amiga CD-ROM has gone before.

istent Suns is not a new progrem, but it is a great pro gram in fact it some of my Isvourila Amrgii programs ever, end one which I've been using for years It's for anyone who has ever looked up at the right sky and wondered, or in fact anyone with even a casual interest in astronomy and space scrances

In a nutshell Distant Suns is your own personal planetanum, but without the Laser Rock Shows at the weekends. For any given date. Jime and location it will draplay a picture of the sky scattering that sters, planets and gelaxies as you would see them on a clear night. With your room Irghi's turned down, and monitor adjusted,

The offect is beautiful al does an excellent job of getting you over the potentially confusing hurdle of co-ordinate systems. Once you start it, it looks at your clock and calculates the position of all need to tell if where you live (as your location on earth obviously makes a difference) but that's the herd part over Distant Suns may lack the anayolopedra of background. informel on which accompanied the similar

Amms nackage "The Digital Universe", but rt makes up for it by being friendlier and less mtimrdeting

Smca Hast Installed Distent Suns, I glad to report that it has sprouted an ARexx port. This is perfect for edvanced users, because have access to the complicated mathematics involved in calculating the position of the sun moon, stars and planets. With a little ingenuity the ARaxx port could be used in an Arriga based system capable of guiding a telescope for example. Some AReax scripts ere provided to get you started, and these include a function to return the position of the moon and a function which creates an enimation of comet Helley's fly-past

As it is now also distributed on CD-ROM. this means that the huge Hubble Guide State excluded on their own these files would have consumed over four hundred floppy disks. These add-in fries increase the number of stars which the program can display. to the extent that most amateurs even the keen ones with large telescopes, won't see sixteun milron in fact

Also on the CD-ROM ere over 1500









re.

otad

MORJ

00

Heaventy Bodies

Distant Suns includes details on many more objects then the sters

1. Plenetary Date. Now only can you find the position of the planets, but else view their phase, useful when planning telescope observations

2 Lunar observation The moon is rendered with wonderful detail, including the correct shading. The stars around it are part of the Hubble Guide Star Catalog, which includes

3. Planetery images Click on a planet and up pops a screen containing this kind of high

4. Deep six phiests Hore we us selected one of the encoded Messus phiects. Not only do we get detailed notes, but a little picture.



hone up notices of the surface moons and stars would look like on the day you were born, end you can create a map to take out-

hard to do it justice in this reletively small leview. You can print out your own star mans and ephemens (a list of astronomical positions with setting and using limits), add your own objects such as comets, view the solve system from millions of miles away watch solar and lung eclipses. Leach yourself the

side and use to guide yourself around the sky

Not that big though ill was written back in a A Zsem is se placets, and chack they phase cheap and so it will work or almost any system. Obviously er ference to speed (an EPU year sign is included) as there are a on an A1200 it's fast enough to

Perhaps the only problem is the lack of support for graphics cards Although the Distant Suns NewMode, a built in mode requester would be better than

> pester the nublisheis RHOW . John Kennedy

> > d Dich en the nelaxy and on near s tiny photamanh uu yan knew solvet et Josha liks



d The many graphic is se ered it feeks libs s photograph)



■ Speakma ad asketegraphs, the CO-BON is pecked with HASA ierapes.



Different views

There are many different ways to look at the shy with Distant Suns, depending on

what you hope to see You can configure it to show you what you would see if you went outside (complete with twinkle effects), or you can view the entire soler system from an imaginary apageguaft.

- 1. Planetailum view This view displays a huge 180 degree view III's useful for guipkly finding a perticular object
- 2. Local view Switch to local view to create the picture you would see on a perfect night. You can even change the landscape to match your surroundings.
- 3. Local with extra date Extra information such as star names and prids to help you find 4. View from space Hore's the inner soler system planets as seen from four times the
- distance of the Sun. You can watch as the planets rotate, and even greate an animation

DISTANT SUNS 5.D1 CD-ROM

ystom Roquiromonts; Mr MM, 4Mr hard drive space, Workbarch 2.84

on formulation of autonomy would be seemi plack mick when you realise the mothematics. harpoin for sect a professional areful and

Great to see this wonderful ragram on release agaia



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The Apple II, for better or for worse, was the garege-designed computer that Steve Jobs convinced millions of people and confless institutions to buy it was a bit of a paradox by 1982, it was offening less m puters, but had such name recognition and software support it kent plugging along And with A-II, you can keep a 48K Apple II+ pingging along on your Amiga

Al first, I was skeptical of A-II After all we already had a very capable if not perfect Apple II emulator in Apple2000. White it has "I been updated for three years, it does a pretty good job. Add on log of that the fact that All comes from Microcode Solutions. the principles of which had once solicited Apple2000's sulher to buy the program, and even showed it at a convention, and you erony a little more

To clear that up lirst A-II is not Apple2000 lis aperatron does shere some common fea lures, such as vanable speed and multiple mput selection on the fly but as far as I can tell this is not a simple rehash of someone alse's work

The emulation takes place on a custom obline the original ROM images for the emniation to work properly. Other than that, even a standard A1200 can run the emula-Lot, all hough with an 030, you will be able to get the full experience, more or less, of using a real Apple II+, mint down to the limited but canch polette end the sound that makes PC speakers sound symphomic A-II ellows the reading of disk images and memory snapshots, and there are cartainly a lot

I did have a difficult time spotting the differences between A-II and the incumbent Appla2000, and at first all of the points went to Apple2000's column A-II has the annovmo habit of openmo its file requesters on



A Union my ever deceive on, here's that old free Jeest defeathe employer thint.

A Atari

Tennhall

this years.

apparently

Americans alay

same screen as the emulation

image in memory and only saying changes when lold to. A-II. allows the equiption to well to your disk images at will And I prefer Apple 2000's "status bar" to the teeny on-screen mons A II uses for user information But then the compatibility tests stars

dug out programs that had given me Ironble on Apple2000.

Instruction and All capably handled some for disk images which some cemas require It also rendars the Apple's graphics slightly eccurate but annoying Apple II+ color Had A-Nimplemented a 128K Apple, rt.

would have been wonderful, but as it stands All will have to be a complement to rather than a replacement of Apple2000 = Jesen Compton

APPLE II EMILIATOR Developer: Microcode Solutions

stem Requirements: 05 2.04, 50020, 2 to 2 Magn moment and hard drive recess

t should have nusked the envi

graphics. It sometimes "loses" sprites or

tari 800 Emula

Fraeware, Distributor, Microcode Solutions (www.ctaz.com/~msdei)

While it's generally accepted that the Apple Il started the home computer revolution, rt was the Aten 800 that was the first home emputer that had the sort of qualries we same to expect, good prophics/sound and The Atari 400 and 800 predeted Sinclair and Commodore's lorays into home computing by a couple of years and their populanty peaked earlier, and with less overall snocess. By 1985 it was clear to most software developers that their fortunes lay alsowhere But the Atan 8-bit computers shere e special common thread with Amigas - They were lergely designed by custom chases

Finally Microcode Solutions has provided on easy-to-use program to emulete these old workhorses. ACE has been released as recovere in an as is state. That means emuation ien'i perfect, some features are unim-

plemented and isn't likely to get any better But there eren't many alternatives end ACE is the only one that will run well on an

030 Amron

ACE emulates the original 48k Atair 800, meaning most but not ell of the software you can find for the Atari may work (Later models boasted up to 256k of memory but those were in the dwindling years of its life) ACE even boasts an Amroa-to-Atan networking system you are mysled to build at your own risk which will allow you to access real Atan herdwere As it stands. ACE will run certridge

images, disk imagas, and "snapshot" files The XFD disk formal is supported over the more popular ATR, but stripping the top 16 AGA is recommended for full color and sprite offects (the Atan had some very splitshy "colorbar" effects thenks to its Jay Miner chips, and pioneered the hardware sprite) Graphics dards are not supported by As with any amufator, compatibility prob-

lums arise. ACE has trouble with a few Aran graphics modes leading to very corrupted

doubles their dimensions when inappropriate. And then there are programs which will simply (ail. For the industrious hacker, ACF. has an exceptronally elaborate debrigger built in, so you can prok apart problems or learn more about the Azari's miner workings ACE is blemished, but I am prateful for

the release of a straightforward emulator for the Amige, and can only hope if will mapire others to build on the work and come up with a more rock solid way to expert ence the very unique and

underapprecial ad world of Alan R-bit computing. And if you re-rotes ested in buying the technology outright. I hear JTS Corp. Which recently bought out

Atan, rsn't domg much with it these days Jeson Compten

ATARI 200 FMIII ATOR Developer: Microcoda Solutions

System Requirements: 05 2.04, MIZE, 1 III namery. 2 flogs recently and hard deno re

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MA clean . somale reserver The very model of say construcplan.

ten aside, Micronik ICS and Eyetech, there is a new heavyweight challenger in the rmg eye Power Computing's new tower case has a sleak professionalism about it which makes the rival options look uncomfortably DIY m companson

Mercenk inlimity case, the solidity of the ICS town and the easy fit mentality of the Evetech EZ-Tower When we mitrally saw this box on display at Computer '97 we could see that this was a sengusty claver piece of kit. enough so that we were dubrous about the likely price. Now it's here for us to give the

It on the same footing as its direct iwals When we produced our defertive guide to putting your Amrga in a tower back in our April May end June 1997 issues we popular but we never quite expected the huge response they generated, nor the explosion of interest in tower eystems that has followed With no middle ground between the cheap but limited low end Amigas and the expandible but expensive high and Amigas, a towensed

A1200 has always seemed like a popular optron but it is one that no-The A1200 matherboard is simply not

designed to be treated this way, so it's a lot of work to make a tower cased Amiga work properly. Alt that austom construction means conversions were generally considcards end increasingly powerful software has gone a long way to changing all that Possibly an even more important fector has been an increased desire for the facili ty with which a tower cased Amma can have storage devices added to d. The pirces of 3.6" hard drives has plummeted and the desire for Zrp drives LS120s and most particularly CD-ROM drives has soared Next on the honzon is the advent of the Bizzard PowerPC accelerators for the A1200 recommended for use in towers only, so yet more people are going to

Made to measure

Fitting is what the Power Tower is altabout With an elegant fully shrelded metaticase, a good range of drive bays and a 200 Watt power supply the only thing the Power Tower seems to miss srttmg on your desk is a "Powered by Amiga" logo, but even this may well be coming soon. Turn the tower around and you will see that like the Micronik Infinitive case, this sports proper out - outs on the back for the rear ports of the Amiga 1200's motherboard. The panel is oddly recessed into the back of the case, the reason why being clear when the case is opened up thiside is a cradte not unlike the holds the motherboard proper The cradie fits into the side of the case a small L fold

hearing the cut - outs. To connect the A1200 motherboard, rt rs. first necessary to remove it completely from the original case. The plastic clamshell of the console box is unsciewed and the keyboard



b It mur took at First n little Iften a firea sua Sick which has expl. treffic fields. bet I like rt.



be fecul with the thorny issue of friting their A1200 to a tower case The available bundles

Bundle 1 - Case, keyboard interface, floppy drive extension cable, power connec-

Bundle 2 - As above plus 4-way buffered IDE interface and IDEFix '97 softwers. Bunelle 2 - Amiga clone, as bundle 2 with an A1200 motherboard fitted. - £349 95

Bundle 4 - As above, but also including 24x CD-ROM drive, 1 7GB hard drive. Birzzerd 68030/50 accelaretor, 16MB fast RAM- £729.95

Power can also supply custom bundles, phone them for details.

Not content with welking eil over the opposition on the power connector front, the Power Tower has signifer plans for the LED connections and the keyboard interface While each of star Ivels has ways of coping with the trick of connecting the power, disk drive end herd drive LEDs, none is as simple as the one the Power Tower provides, all the wires soldered to a PCB which just pleas straight down into the appropriate piece on the motherboard. The keyboard interface is stunningly simple. A socket is already mounted in the rear of the case. This is linked, vie a push-on.

connector, to a small PCB bearing a single chip which plugs straight into the keyboard ribbon header. The edeptor is a PC keyboard only type, unlike some autosensing rivels, but even the most erdent PC heters shouldn't be bothered about this, you might not like their OS but they've ant better keybourd very cheep. One is, in fact, included in the price of the tower

abbon, power LED and disk drive connectors for the Micronik case comes close. With a temoved. The metal shield than has to be taken off. Smell lold over tabs hold the top part in place, a few moments work with a tong fingernal is all that is pacessary to

has cutouts which the ports poke through small hex heed speket screws boiring it in place Removing these can be a little fiddly but e Ebar socket wrench is thoughtfully supplied, which makes the task very simple

Once the shield is entirely removed, the motherboard can be simply slotted into the cradle and the hex head socket sorews out back in to hold it in place. We found the

align perfectly, making this the other end of the board of hex clearence bolts end a couple of stand off pillars the middle, keeping the

motherboards not to men-Arrige baby AT form factor boards designed for this type of case have a stree on them. The A1200 doesn't The correct voltages are

them poses a bit of a problem ICS opted for a connector which leads out of the tower and back into the nocket at the back, e good. if slightly ugly solution. Evel sch made it preluer by connecting an adaptor to the figurey supply the -12v line so necessitating a flylead on which slots mio the centre of the

The Power Tower has the best method vet. Fundamentally similar to the ICS soludustom modified. The rear connector is a Hush mounting L-shaped fitting which doessimilar device qualable es en optional extra

Micronik Zono board littlid, the ICS end Infinitry cases can draw their power internal-

by but the Power Tower can go this route too have been made (see box above) eli thet remeins is the floory disk drive. The internal unit slots into the drive bay behind a proper faceplete, and a long floopy cable is sup-Iem - the hole in the faceplete for the disk elect button was too small. Power told us that this hadn't happened for them, so we assume that the one we got shipped had the wrong laceplate in it, and you shouldn't have

> Finelly ony hard drives, CD-ROM drives etcelere can be connected in the normal manner There are two 3.5" Roppy drive bays, one with the faceplete pre-installed and a further Three 5 25" boys complete the score, giving the Power Tower es much drive room as the ICS huge Eyetech EZ Tower

Smooth operator So how does it all work? Once assembled there is not a huge

tower solutrons, but this comes ity it is excellent, something you would expect from the

variable items, is as good in operation as it is in essembly mapping the full Amigs keyset including a keyboard ruset and running smoothly and flawlessly. It does well on tho looks front loo - mstead of the normal little LEDs on the Iront, this has small banks of shrelded LEDs m red, green end yellow which glow gargeously from under the ridges on the front panel. A stroker set is included to lot you label all the rear ports. The reset switch can be connected one of two ways - if you install a Micronik Zorro board you have a reset line supplied, otherwise you heve to solder header pms onto Iwo surface mount components on the

A1200 metherhoom This is a real let down for the otherwise ultra easy construction. It is a pity there is not a header on the key board interface to take advantage of the key- weplicity Works board reset line the wey there is on the Aleo. dams will tak kayboard millerface used in the ICS towe

Connectron of IDE devices is best left to the opponel 4-way buffered IDE mierface and excellent IDEFtx '97 software which Power supply for en extra £30.95 1 ás the ICS case. This uses the same basic levout esthe Micronik boxes so Micronik PCMCIA nobl angle adeptors can be used, as can Micronik (or presumably Alao) busbeerds. We hit something of e problem with this the keyboard interface strcks out too much. getting in the way. This isn't a fetal problem as with care the two can be jammed togeth-

er, but it's not the best emengement either The Power Tower is simply the best tower struct as it is ever likely to get, and comes. with good instructions. Like ell things in this world it is liawed, certainly but none of the plethora of options for tower conversions letely your decision has just been made.

Sure there are still advantages of the capacity and dual matherboard facility for instance - but for the mejority of users who simply want the extra expandebility end bio ger power supply a tower provides, this hosyswiright from the Power stable KO's the opposition in the first .

Andrew Korn

POWER TOWER

or, basic BIT skills

A Here it as, a instanced enterluce of suprassa

nec.

All You Need For Internet And Comms!

netconnect v2

to worm of the provider and fat the wheath do all the rest for your Stroples With van to wormy about the provider awarything is accompt, everything is point and click about NewCommert vi Linn 37 issue? Alamont the perfect particular to the Annian the worry about the provider. Invertining is assorting, selecting is point and obtain. Among remail conducting in Membershers of the Arrige Hermat Learn' I Hypotheria (I have 20 have a high princip before the Arrige Hermat Learn' I Hypotheria (is online the 19 the assessment way to of 2° and "the good siles for increase too appearing the found adorquite 30 km owner. The Arrival Membersher and Arrival Membersher an

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use of the rout addition industries of the internal
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Versal the time Arrays well in Average support SR. for see PTTP 53 for the feelen Instructor ALA support Line succ Inagent and very it

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AMTALK E these conditions for the Arrige, June so orders amongstones, service for people tonce myraphes. Was our tolk times 'realizers' to festion on the frinces.

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NetConnect v2 vs a stage-of-the art internal package simed towards Arriga users wanting is connect for the

The time tablodite interpal beginned lines who have been considered and considere MIME Profe. Central MIME profe interface mesne that you only need to samp life types once with on nice interfects) Thre seems chances of time and effort less for beginners)

Setup Wicard makes configurably year ISF a doddle Choose year modern, arear some use

New are arrents. Amilali, Natinio and X Arc is brand new WinZP** style archive manageme tool Downloads the toxicip lies from Veyager atc, auto-senacle tham into X Ave's Gul and allows

you to postfor the mater.

Propagations are more keyfile based from be used with any TCP stack. Milami etcl.

you have created into the fron bar! NecConnect v2 to pre-eating with its own con bar for uses of nee Printed manual understand NecConnect and the Internet quickly and easily tedesce from NC need!

NatConnect v2 CD (sectors new privat destypes MSNE types the news browning) and much in mi £52 95 NeeCompart v2 Finnery Druke look contains the care programs & order halp docu-Feuff! NetConnect v2 Upgrade from v1/v1 1 (rep

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Input devices round-up

PEN MOUSE PM-AM300

Product: Pen Mouse PM-AM300 Reselution: 250dpi Cable: 5 ft

Price: £12.95 Supplier: Gelden Image (0181 900 9291)

the first time wazn't the highlight of my Amigs owning life. Not only do you need to hold this implement in a lotally different manner than an ordinary mouse, you elso need to gel to grips with the fact that it doesn't feet much like a pen either It's larger than a pen, and doesn't have the same

balance - in part due to its bulky but light weight plastic construction. The other disedvantage is the lead. Being on the top end of the unit, it takes more affort to drag it eround the mat, end the lead continually brushes agamst your knuckles and fingers distracting to say the least

When I first placed the PenMouse on the mat, the pointer didn't respond well to the pen's movements looking more like it was being diagged through patches of oil and to this problem was found when I turned the mouse met over, and used the pen on its

foam backing. The pointer then moved

around in a much more controlled manner The buttons on this device eren't meally situated either The largar (and lower) of the two blue plastro buttons is the "left" mouse button, but clicking it invariably causes the pen to move on the mat, resulting in less accuracy when double-clicking rooms, for example. Because the 'nghi ' mouse button is immediately above, you don't need to move your index finger very far to click it, but then you can't hang a different finger over It like you can with a slandard mouse

reason to this pen After alt that s

for Loading up PPaint

pul pay to the rdea that The PenMouse is ideally suit pointer doesn't respond brillrantreason to expect that it will in an art

Finally bacausa this is a pen, you can'l just lake your hand off to type Instead - at least when you first use it - you mat prek it up position it in your hand comfortably Incl. easy), position it on the mat at The right angle, and then move it. Far Ioo much hassle for my trking

LOGIC SPEED MOUSE

reat idea, sheme chout the rice. Weidd it get used ?

Product, Peramer Turbo wheat Price 59.99

Supplier: Epic Merketing (0500 131 486) I you've still got that ency of Gooff

Crammond's Formula One Grand Prix knocking about, load it up and plug this device in

to your joystick port. There are two parts to 1 - a footpadal unit and a steering wheel column, complete with what the manual calls "instrumentation decals" (that's "stick

Although intended for IBM compatibles the Per4mer works very well with Microprose's Formula One Grand Prix, as it should do with any other games that cen make use of analogue joyaticks for input Also provided in the box are some, suction cups" (rubber feet) which pop mio the holes on the underside of the steering column and prevent the whole thing from strpping all ovar the desk should you get loo enthusiastic with your driving The lead from the steering column plugs

into a socket on the lead coming from the footpedal unit which than plugs into the joystrck port. The leads aren't gurte as long as would be rdeal - the one from the footpedal to the joystick part could do with lengthenng by a few fael - but they do the job Geoff Command's masterpreca dalmitely

benefits from the edded reelism provided by although berns constructed out of plastic has the sort of resistance that you would axpect from a steening wheel all hough when you fat go, it clicks back into a central position, and when turning from left to right you can feel it click in the central position rather than rotate amouthly through it. The acceleration end brake pedals -

which sol as "up" and "down" on a joystick. also have just about the notil amount of mertia for your fool to push against, but after calibrating them for use with Formula One Grand Prix, only the last half inch of movement in the pedals are med to have any effect

The two buttons on the rear of the speer

ing wheel (behind situated for changing gear as Silverstone and

you race around the extra control analogue wheel is intuitive. The matrumen

column could be done away with, as they don't seem to have a purpose If you can put up with the

bulky plastro design and don't mmd shelling out 60 guid on a pempheral that may not see as much use un perhaps it should, at least consider the Per4mer

and eppearance, it brmos a world of secing, and without combinetion to set it agenst there really rsn t a lot to fout





























Preduct: Logic3 SpeedMouse Resolution: 300 dpl

Cable, 5.5 ft.
Price £9.99
Supplier: Various stockists

This shiny white mouse is alightly larger than a standard A1200 one, and the casing slopes down at the back rather than up, meaning that you can't rest the palm of your hand on it's back when you're using it. Desorte foeling different, the screen

powier responds very well to the movements of the Specificause, though not with any great speed as you may be led to believe. The buttons, described as "Featherlouch" on the box as clusher than those on an A1200 mouse missing a choicing sound which starts out as satisfying but quickly begins to ennoy At least you know when

LOGIC3 SPEED MOUSE

Control Con

Below-gar mouse with extra clicky buttons.

You've pressed one, fauppose

On the whole given the price of the mouse, you'd be far better off gain for the Alfa Data MegaMouse-Plus In comparison the Logical SpeedMouse has e shorter cable fewer buttons and a lower resolution. And the Alfa Medical SpeedMouse has estated to the fewer buttons and a lower resolution. Alfa Medical Speed Mouse Alfa Medical Speed Medic



Product. Alle Data MageMense-Plus Reselution, 400dpi Cable: 8 ft. Price, £9.95

Supplier. Golden Image (0181 900 9291)

Oldering three buttons and a solution, flatter design than your average mouse, the MegaMouse-Plus an anthing special to look at Three microswitched buttons have been squeezed into the special of the waste livening and the design of the mouse obsert the action to extend the resting up against the pair of your hand unlike microswitch rate up at the back having said that it's delightfully assylv to use

Functionality wase, there's nothing to fault ebout the MegaMouse-Plus it glides over like mat end the micro switched buttons are much nicer than those on a standard A1200 mouse — clicking quietly (unfide those on the Logica) and responsively — no risk of eching fingers here.

worth a tenner of anyis monny, penny

Another horses is the extra-long agisht foot feet if may not sound like much buil you have a tower smatted some way from your monitor and knyboard, you shouldn't have en you be smatten the Megalificasis on you disk. At 4000pt, you don't need to move about much either The enhanced resolution means the mouse won't have to clock up as many middle so no with a lower on on white a lower on one white a lower on the account of the control of the contro

Product: Amiga Tachnologies' Amiga Mouse Resolution, 300 der Cable: 5 ft.

Price: £9 95 (Including mouse pad)
Supplier: Power Computing (01234 651500)

The response of the official Amrga mouse is good - the two microswitched buttons are very similar to those on the Alfa Data MageMouse-Plus in terms of feel, and of a comparable size to those on the cheaper MegaMouse-E fts esymmetrical design would seem to suggest that it is intended for use by right-handed people, but using it as a left-hander doesn't cause eny problems - it may not fit the pairs as snugly but it s not uncomfortable. The left mouse button even has a smooth circular depression on its surfece which means your index finger can rest there whilst you're moving the mouse on the mat end the buttons themselves have a smrlar movement to those on the

AMIGA TECHNOLOGIES' MOUSE

ofme for maney.

perall You like the Amiga logo, hances are you'll like thi

MegaMouse-E - perhaps a little too much but nothing senously distracting

For under a tenner, you could be rail worse then this mouse (the Lagres), for instance). What's more it even comes complete with an official mouse mat, and both is sport, the Amiga logo, just micase you forget what it is you bought it for



ACTION PAD AM

A short length of block cable with a weight on the end

Product. ActionPad AM Cable 4.5 ft. Price: £9.95 Supplie: Golden Imaga (0181 900 9291)

This control pad is nothing special. You can use it in place of a loystick, but you can t

use it in place of a CD22 pad migames like Guardian, bacause it doesn't have all the bullons. As far as control pads go, at least sturdy without baing too heavy. Unlike the standard CD³² joypad, you don't feel like you're holding a glasses case

When I started using this pad, I could only gel the blue fire button working. The other buttons appeared to be redundant Loading OnEscapae, the other buttons behaved just like the blue one. Yes, this is a

control ped with 4 separate fire buttons The two buttons on the front of the pad could do with being slightly larger as the right hand side of the unit looks quite bara Honal pad, and to make things worse, the lead is shorter than an ordinary mouse lead,



EGAMOUSE-E	
HINES.	Also
unicuctive	80
His Mr metay.	- 18

Cheaper than a Magadiouse-but you get what you pay for

Product; MegaMouse-E Resolution, 300dpi Cable: 5 ft Price: £4.95

Supplier: Golden Imaga (0181 900 9291) After using a 400dpr mouse, the loss of 100dp is guite noticable. Returning to

and accalaration, and we're back to e mora respectable level of control. One thing you cannot do with MCP however, is give a twobutton mouse three buttons, so the loss of a button from the MegaMouse-Plus is also

Rathar than raising up at the back, the casing for this mouse raises in the middle so rt feets a lot like the Logic3 to hold - not that it's a bad thing. The buttons aren't quite as responsive as those on the MegaMouse-Plus, but they re much nicer than I hase on the Logic3 Another loss is three feet of cable, as this mouse only has the standard five-foot lead attached.

You could argue that the five pound reduction in price makes up for all these shortcommgs but far my money, I'd much rather spand that extra fiver then but up with tha MegaMouse-E



RIMAX MATER TRACKRALL MOUSE

Product: Primax Mater Trackball Mouse Resolution: 200dpl Price £39.99 (Inc. Mouse it software) Supplier Epic Marketing (0500 131 486)

Trackballs are funny things, and most of thought of the designars. Not so with the Primax Master To be honest, if wouldn't look

As this unit was designed for a PC you need a free senal port to plug at in In. The LogiMouse software and a senal adaptor both of which are provided in the form of Mouse II which costs £4.89 separately

The whole unit is an ergonomic master place - the buttons on either side of the II-He racing-green ball offening a concave section and some raised "knobbly bits" possibly for easy operation with wat fingars Tha whola thing feels quite naturatio use your hand just rests over the unit and mmedrately feels at home

The only dasign quirk I found was that of the middle button it's in the centre of the unit, just below the trackball. It might be trackball on the Iront of the unit

All in all, this is a comfortable and robust looking unit. At £40, it could be considered. over-priced, but it should last a infetime



Ultimate Blitz CD

🖿 Price: £19.95 🔳 Supplier: Guildhall Leisure 🕜 01302 890000

All things Birtz, on a single CD...

Into Basic is by no means a new lenguage (even the lates) verold? It may have been around In a very long time, but it s arguably the best version of BASIC on the Basic are its interface to the Amiga OS Moranus and the shristy to use mine assembly statements. These make it suitable for a broad spectrum of programmers, as games

ike Skidmarks ere lestament What's on the CD?

So, the velidity of having Blitz Basic on CD is not m question. But what is it that's likely to make you part with your cash and buy if? Mayba it silhe price £20 is pretty chesp for a complete package like this and there's tons of bonus stuff like PD drsks, disk magezmes support software and tutonals, all ded

Maybe it's the lure of programming learn and there's more than enough meat in The Birtz extensions to keep you learning and make the migration to using the standard thing that is useful no matter what language

Or maybe it's the social aspects like most good things on the Amiga, Birtz Basic has a large following. You can join user groups and share knowledge and help promote the Amrgs Thera's plenty of contact disk magazines, and loads of contributions from the felerost.

Ok, so the most likely people who are going to be interested in this CD are those wanting a cheap and simple way to start using their Amigs for more than just playing gemes or writing letters. These criteria ara



A The Oldz Ban's edited.

language is assy But the Imal piece of the ngsaw sn't quile there

What's missing?

The CD lacks something that would have made if really great integration it appears shovelware titles. A nice cheap collection but with ripthing much holding ell of the parts together

Take the Installation script for exemple II seems to do the bog-standard Blitz Basic installation, omitting little things like making require those resources

are out of sync with others, as some of the examples fail to compile because of a 'dupli cate typa" error (which is often caused indirectly by some other life, making it a difficult problem to find and fix: This is quitaunder system must have been upgraded without likely to drive the intended audience (begin nars) quite mad

Birtz Basic sources cannot be viewed with a standard lext viewer nor creeted with a sten-

dard text editor, so you're forced to use the supplied editor. For some reason this editor does not follow the Amiga Style Guide but scroll bars to file requestars (although 1 is

to have this as an up-front restallation option

Quibble free

If you can get over the disappointment of the installation and the lack of a gurded tour of the contents than you'll probably get a for out of this CD It's a shame that the Birtz user group didn't spend some Jima to polish and enthusiasm and it if do you just fine Jeson Hulence



A You can write mandelbrat randerers.

HITTIMATE BLITZ CD Beveloper: ACT

The language in BASIC, we can olde and absole. But the CH His has the privated in racity but code, and it's built on

This is alknes this CO were; seen unles-

BASIC

Beginners Att-purpose Symbolic Instruction Code A language which was designed te be suitable for beginners it's also commonly used by even expert programmers to do quick and simple prototyping. There are many different versions of BASIC on the Amige, deting back to one done ler the eriginal Amige by a small company called Microsoft In lect, BASIC is the language which formed the laundations of the Microsoft Corporation (which aught to explain their continued fixation with it!).

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(2) Scene

Steve Bye has finally got over the excitement of Christmas (bless him) and is just about calm enough to try out some new games on disk.

Totally blinding
Good
Average
Substandard
Oh dear

Online Games #16

■ Type:Games completion Averable from: Online PD 1, Formby Liverpool Clorsters, Helsall Lane, Formit 137-3PX, Tel. 01704 834 335

Price: 75p

This 100% full disk contains no less than six games and aurphaugly for this type of disk most of the progrems on here are either quito playable or at least interesting. Dragon Pyramids is clone No 66740 in the Dragon Thes senes but has some good graphres to lear at and multiplayer modes

Personally I could never understand how anyone could enjoy such a simple game where you just click on matching thes, takes clone but this time of the B-brt classic Xevious, and rether spriling it is too Nice smooth scraling with edible

scenery and of course that neft gun sight on type of maze game. Pleyer 1 gets a 15 secand head start then player two must try to catch him/her Sounds like something my sistor used to play at school

TurboSmesh is this months Arkenord clone. As you would expect it's very playable and has a bat, a ball and lots of broks m it Wormout 2037 is one of those horred worm games. You have to wiggle swkwardly eround the screen svoid the adges and collect the goodies not my rdea of how to spand a waokend

Nicely presented though Rise Of The Rabbits is the most outstanding game on Dynablaster type game for 2-4 players. The idea is simple, the first player to collect lour stars hidden on the screen is the winner

There are seven other goodies to prok up as well such as extra Iwos, speed up atc. To move around the play area you have to





move the blocks that are in your path by dropping bombs and hopefully killing an apparent too if you are lucky or skillul A drinks calimet three friends and ROTR will do me for this weekend, to very much. ***

Turbo invaders

Type Shoot Em-Up Avellable Irom: Classic Amiga PD, 11
 Deansgate, Raddiffe, Manchester M26-2SH Tel: 0161 723 1638

Price. £1 plus 75p P&P per order As the author of Turbo Invaders confesses. the graphics in this game are not up to

much, but luckely TI is the type of game where you can get away with dodgy graphics because of the rather grafty gameplay

This so oney you will find yourself on levol 12 or better on your first attempt. The may be taking the 'ease them into the game. scenario a brt too isi but it works. There are 22 leve's to complete and you simply shool at everything that moves

The game is probably closer to Galeorena than Space Invaders as the enemy don't of enemy to aplat and some power up's to collect to enhance your weapons

Ti is nothing special but it could provide a tew hours of blesting mayhem for us o'd timers. Usage of grey matter is not required ****

AmiPets

- Type. Cyberpet sm
- Averlable from: F1 Software 1 Lower Mill Close, Goldthorpe, Rotherham S63-98Y Tel: 01709 888 127
- Pirce. 80p plus 75p P6P

Last month I reviewed a CyberPet game called Choke, it didn't go down too well I am afraid I won't bare everyone explaning what CyberPets are agent I drd that lest month, anyway it you don't know what a CyberPet is now you probably naver will

This disk has not one not two but three (you lucky people) different 'peta' for you to play with, this includes a sprider, Sheep and a Smiley fees But the big difference and this is significant, is that these pets run as Workbench toys in their own Intile window My mam criticism of Choki last month

was the whole pombessness of it all now we do have a point a Workbanch toy that can be fiddled with when you are say price mg, downloading or just need a short distraction from your work

The whole idea is still a bit crep as lar as 1 am concerned but at least there is now some reason to it all. As I said there are three pets on this disk which is a little misfeading really as they are all the same program but with different graphros You can create your own pets by chang-

ing the graphycs if you wish and the documentation explains how to do it using a

pamt program

The icing on the cake I suppose is that you can save the current slelus of your pets AmiPets is a bro. bio improvement over what I have seen so far but I am still unconvinced whether much fun can be squeezed out of your Amigs and a CyberPet

Clunk Click

Type: Recing geme Averlable from: PD Power 15 Lovelol Avenue, Aston. Sheffield. S26-2BQ Tel: 01374 150972

Prica: 50p +75p P&P

The idea behind Clunk Click is fairly straight ferward, smash up your opponents cars either by firma missiles or creshing into them. You can play with 1-4 human players



controlled cars

Mill

ou to

and

The race track is an arena, in other words you just whiz around a static screen. There are four exils on the screan with a wraparound effect for gurck excepts should you feet the need

Dunng the game there are riems to be



Type Arcade/puzzig Averlable from OnLine PD. 1, The Claisters,

Halsall Lune, Formby Liverpool, L37-3PX. Tel 01704 834 335 Price 75p

Commodore 64 game called Oil's Well As for as I recall I have never played the original but if it was half as addictive es this version I really wish I had

You control a snake's head with your joystick when you move it around the meze collecting the 'pilts (a lá PacMan) it leaves a body' that musn't be touched by the roammo

baddles. You can't pass over your own trail but you can erase if by pressing lire to go into reverse gear That's it, you gobble up the prils, eat the beddles and collect any bonuses that

Bonnses on offer are extra lives, extra time points and beddle slow downs. The old KISS eddage (keep it simple slupid) has been pul to full use in this game end it works a treat. Classic addictive fun. The graphics are of course 8

bit style ie, basic and blend, but you really don't cere once you get Game caught up in the game Although there are far loo many of the nnongmal gemes around and we

need to see some new ideas, this type of game is worth the disk lonth space I haven't had so much fun since Tottenham Hotspur got a new

+++--

picked up that will enhance your chances of success like missiles, pash, extra spend and extra energy The normal way of playing the came is via a championship that you can sell up, but there are also practice options

Before each race you also get a chance to buy and sell tems in the shop. So far so good in theory the game sounds like it could be quite a lot of fun in practice the game is okay.

The graphics lat it down a little and for me the gamepley just doesn't offer enough to keep my interest. Playing against other human players does improve the fun-factor considerably though

This is the type of geme most will have a few plays with then keep it in a disk box to play later, but probably never will I haven to taken the mickey out of Clunk Click Lonmuch because if was written by a 15 year old and he claims it to be his first releasable game. I would be pure proud of Clunk Circle

if it were my first game **** Waponez IV

Type, Shoot-Em-Up Available from: Classic Amiga PD, 11 Deansgale, Reddiffe, Manchesler M26-2SH Tal 0161 723 1638

Price: £1 plus 75p P&P per order. This demo version of Waponez IV only gives you two levels to play with, it's E5 to regisler for the full version and apparently you

even get some documentation with it tool Weponez IV is a shooter in the mould of that old classic '1942', the enemy waves are very similar and the puny weapons you start with any frustratingly or puny, as is usual

In fact I gave up Irying to blow away the enemy and just dodged my way through a level, which is gull e short, but I got my just deserts when I had to fece the obligatory end of level monster, in this case a space ship with a penchant for crushing you every

tenth shot. After learning my lesson I pleved the game properly and eventually arrived at the and of the level with some decent fire-Dower and slayed the sucker Okey II was fun once I had learnt the general patterns of The alien creft and I gnass that is what it s

elong e bit (good old Amos) and the graphgaming and this one is a touch above the everage Amos PD blaster





Little Steve Bye hes a wail of time rummaging his way through this month's pick of the PD crop.

Comms Guide

Type: Tutorial

Available from: Online PD. 1, The Cloisters, Halsall Line, Formby. Liverpool. L37-3PX. Tel: 01704-834-335.

Price: 75p

This Literal, produced in AmrgaGurde format, explains how to set up herdware end software on your Amage to connect to Bulletin Boards and tha Internel. It goes into fairly high detail on subjects such as Fidonet, a mart and ET.

The only problem is that this guide was wintain in 1994 and heart been updated since So don't expect Comms Guide to cover the more recent developments of the Intarnot Although the general info is still valid and will be helpful to most nevcomes they will learn some out of date information which is exactly.

The second secon

what this guide sets out to avoid

Any beginner will have to bere this in mind and not lake any vanables as gospel Luckly most of these variables like phone costs, MODEM speeds, Internet addresses contact numbers etc. Are not fatality senous so this guide is abit valid as long as a touch of common series is applied by the reader. **** Totally blinding
**** Good

**** Average
**** Substandard
**** Oh dear

Total beginners could use this guide to conned their equipment and download more recent lutorels from Bulletin Boards or the Internet. An update to the guide could make it indispensable. 本本大水中

Phuture Trax Vol 1... Type: Music collection.

Aveilable from: 17 Bit, 44 Cacil Street, Welkden, Menchester, M28-3LE Tel:0161 702 6737

Price: £1 plus 70p P&P

This is the first release from someone called SLC. This 2 disk musical extravaganza contains 8 techno style music mods that can be played from a simple, but ugly manu. You can boot the disks or use the supplied hard drive installer.

As you listen to the music you can read the obligatory scroll text and as is usual with this type of production, that's about it. The

Utility of the Month...

Hypra

Typs: Hypertext application
Available from: OnLine PD. 1, The
Cloleters, Helsell Lene, Formby, Liverpool,
L37-3PX, Tal; 01704 834 335.

Price: 75p

If you need to compile a disk magazine, E-book with your own sounds and pictures, Quiz



gemes, user manuals or catalogues look no fur ther because Hypra can do all the above and more. No programming is required at all to creete your book or catalogue and Hypra will give your work a very rice look and lee!

To create your book all you need to do is easier amble your lest lifes, pictures and sounds and put them on a disk with the Hypra program. A bit of work is then required to link your protures and sound with the text end to creets links and buttons, colour schemes and the like buil it.

Micros to System

Micro to System

Micros to System

Micro to System

Micros to System

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Micros to Syste

Is all explained clearly
in the Hypre manual,
which is of course
displayed using
Hypra Once you
have limithed your
book you can heve all
the files squeshed by

the hies squashed by around 50%, which is useful Hypre will unpack the lifes sutematically of course. Few will have any proble

malically of course. Few will have any problem learning to use Hypra if they read the superbly written documentation. Basically if you can creete simple.

Baseally I You can creets simple Amergodized documents you will here no thoughed a sill with the. The man program the been written using Amos Pho and possibly Amos Pho's interface singuage tha only drew beats in the not Motherent look but but which have been seen as the sill seen and the sill when the sill seen as the sill MOTSC are automated using the SCAM and MOTSC are automated using the sill seen and one production in hard drive massibility by simply diagrang the Hymra drews on the your driver. What more could the programmar do? A great price of your kind will produced.



schq Undertover

best tracks on here are probably "I Feel So tracks are feinly samey SLC is a talonted musicing though and I look forward to hear mg more from this guy, if indeed SLC is a

hal * * * * * GrAC V2 Tutor

dine.

Type: Tutor

Available from: F1 Software, 1 Lower Mill Close, Goldthorpe, Rotherham. S63-9BY, Tel: 01709 888 127

Price: £4.99 plus 75p P&P

At the time of its release in 1994 GrAC (The Graphic Adventure Creator) was the first proprogrammers the chance to create very decent graphic adventure games in the style of Monkey Island

But GrAC has always suffered one moon hindrence, the menual was and still is, appelling. The GrAC program itself is well. written end once you undoistand what you need to do is not too difficult to use, its cortarrily essier than programming a luii game from scratch

But as I said, the manual lumed what should've been simple step by step instructions into a mire of convoluted bits end bobs of information in what appeared to be a sendom order and even had some vital inforthere have only been a handful of gemes

released using GrAC I reviewed a GrAC creation e few months back called World Of Megic by the way GrAC is no longer supported by its original author so we can forget an official update to the program or manual To stone for this step forward GrAC V2 Tutor, written by the near legendary Andy Gibson. ell round good-bloke end responsible for many Amige inleases such as The Ultimate

Andy has epent nearly a year deciphering the GrAC manual and has now decoded in into a digestible AmigeGuide decument. The quide tekes you through every stop of game creation in plain English Including IFF screens as guides and examples, as well as all the game files required to follow the tutorrel Any GrAC owner that was Irustrated with the original manual will welcome this guidn with open arms

It's a shame GrAC puriters will have to lay out enother five to get what should've been supplied with the original program, but having said that at least people will be eble to use it now GIAC plus this tutor will cost less than £12 which is still a bargain for a quality package

By the way, Andy has made sure this guide can't be used without the original GIAC menual by referring to certain extracts from the original manual Wise ***

Computer Plus Type: Art collection

Aveilable from: Roberta Smith DTP 190. Felipden Wey, Hempsteed Garden

Suburb, London, NW11 6JE. Tel:0181-455 1828 Price: 90p plue 50p páp

> This disk contains 36 pictures which sie displeyed by slideshow on booting the disk up. The subject matter is mainly computer releted. The quality of the pictures renge from old black and white clipert to old hend diawn 32 colour pictures most of this stuff has been doing

the PD rounds for years

The collection is a mish-mesh from different sources and I am sony to say not one picture stood out to me as being of any use et all. Considering the plethore of chesp CD's full of ert work, most of which hold better quality work than this. I can t see the point of this disk

Sure people searching for art work that do not own a CD-Rom player may be interested but I think most will be highly disappointed with the low quality of the pictures on this disk ****

Best of Aminet

It just gots better and petter It's hard to know quite where to stert for indeed where to stop) this month, as the Ammet was absolutely flooded with decent uploads

I always enjoy a decent demo, so I'll point you in the direction of demo/egs.AH97-INT.lhe (437k) where you will find a compilation of three intro demos from the Amigenica Hungerice '97 scene party Lights and fleres, the winner of the compo, has some nice illuminated plasma effects.

but our vote went to the gargeous pleame effects end great music of the fer too short Lost Ster Progremmers should find a few things worthy of their attention this

month, with dev/ssm/ppcasmpk lhe (53k) a worthy starting piece for those interested in getting PPC development underwey before their PPC pard turne up. If Blitz is more your thing, be sure to check out dev/mui/mui38dev-bb2.lhe (197k) for everything the Blitz Besic programmer needs to use the MUI graphic user interface in their softwere. On the games front those disappointed in Flyin' High should make their wey over to geme/patch/FlyinHighPatch.lhe (80k)

for a fix to improve hendling, allow you to change the strength of your opponents and a lew other tweaks. Those of you struggling with lest months superb Foundation demo should try geme/hint/FoundetlonHint.lhe (19k)

for come friendly advice.

Those looking to eoup up their Workbenches have a couple of really nice uploade this month. One Amige user, tired of the over bright MegicWB pelette, hes produced pix/beck/Gothbenchil the (417k), e bunch of gloomy beckdrope with nemes like River of Angst - ellly, yes, but there ere some greet beckdrope there. Lest but not least in util/wb/AmiLogo.lhe (89k).

If you've ever wented a spinning Amige boing bell in the menu ber of your Workbench, this is the monkey for you, but else it doesn't work with DOpue Utterly useless, but it gets my vote for inclueron in Workbench 3.5.



the make

treet. an be

pad The

Why Apple?

One day we all hope to see the rebirth of the Amiga with a FowerFC processor and other new features to enable it to comprete again with today's systems Sadly though, more than 2 years ance Commondors demits! Inthe of substance has actually happened. We've seen procoppes and heard promises we all hope to see new Amiga developments.

If you can't was and need more performance today, without paying the earth - there's only one real alternative to consider. There is noted been a bester time to think Aprile!



Only Apple offer you both dektop and portable computer that truly match the ease of use the Anuga brought to your dektop. Affruidable Apple adactioned systems have PowerfC REC processes with thousands of off the shelf program available to access whether the Anuga was always previously as strong.

And, if you need the most compatible of all computers, Macmosh is currently the only system that can run MacOS, DOs and Windows applicationvia optional DOS Cards or SoftWindows software

All the other time field in the funds held. Russ some underwants.

Diplotier. And Conemis Install. • And Conemi Workshop.

ThostoPelay. * Lobasis. W. • Dis. Photo Samples.

Should be supplied. • 30 World.



UK Life of Property RPSC processors (poor an visions are sall GISt deugnal fiven entra

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polic as the Baselofs No. 1 Multimodic

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· Many Macentodies have [not in traleum and use

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and Marcooft Intenset Explorer were developed for the

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Art Gallery

Are you a Digital Dali? Computer Carravagio? Send your pics to:
Art Gallery, CU Amiga, 37-39 Mill Harbour, Isle of Dogs, London E14 9TZ.



From the Eastarnmost tip of Germany, Stafan Roat sent us this humourous render produced on his A1200/030 with 10Mb of RAM using Cinema 4D v3.1.



Girish used Brifficace to draw the basic outline of the facethen use photogenicae to apply a variety of Image processing affects giving this its aubtly textured finish



A simple picture from Swedish reader Mertin Berg, who is obviously a major Terry Pretchet fan. It was drewn on a "highly aspanded Amige 1200" using Photogenica 1.2 image X 1.8 and PresonalPatet 4. The draughtamenable rether leaves acomething to be deaired, but the colour and composition of the montage is very research.



Robert, who is a multimedia technician for university college Werrington, generated this image in Lightwave 3.5 running on an A1200 with 18Mb of RAM and SOMHz 330 with FPU (Bitzard Mk IV), It is, as Robert says, hardly an original picture, but a nicely sexcuted one. What's best, dee to publication infilms, we haven'th Ad Christmay syt whilst you're now elds of it, out the results of the result



An odd picture by Jemis Shenks. Apparently this was done in Dpaint, but there looks to have been some image processing affects used to generate the rough road, for instance



Stefan Rest returns with another Cinema 4D render. This one looks based on one of the tutorial renders but I like it he's used the lighting well

It's January Sale time at Golden Image!



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All your favourite tutorials are here once again, joined this month by PPaint 6.6 and a call for all Amiga user groups looking for new recruits (see page 95).

76 Personal Paint 6.6

Our land graphics tutorial switches to Personal Paint 6.6 this month as we explore the power of its ARexx mecros.

C Programming

Jeson Hulence gats with the progrem and this month he takes a look at how to add an ARaxx Interface to your projects.

Surf's Up

Comms expert Nail Bothwick goes for e long dip in the Ocean of Information and splashes about for a while.

Surf of the Month

Nell Bothwick gives you en overview of the best of the best wab-

sitas... Party on Nail.

Wired World

The man that CU Amiga just can't seem to get rid of, Mat Bettinson,

continues his guida to setting up a web page.

Sound Lab

Dhomes Trann plays with some of the batter sherewere audio peckages that ere evailable at the moment

Desktop Publishing

In part 10 Larry Hickmott gives more hendy DrewStudio Lite tips, with a view to designing web pages.

Q&A

Need essistance on Amige related topics? Here our penel of Einsteins do their best to provide the answers

A to Z

Nick £3 H0

Amiga to Zorro, end just about everything in batwasn. This time it's





Back Issues

en issue? Shams on you! All is not lost though, as you can probably find the

100 Backchat

ganeral information, criticism, suggestions. Hera's a chence to get your name

Subscriptions

Life is just great when you take out subscribtion to CU Amigs, the UK's best selling Amiga magazine. Oh, such halcyon days.

Points of View

With scop boxes undarloot, CU Amigas staff and contributors lat the world know just what they think about stuff, Don't mess.



Personal Paint

PPaint 6.6 has a few nice surprises hidden up its sleeve. In part one of our new tutorial series, John Kennedy examines one of its most powerful features...

s you'll know by know after Trying our special coverdisk give-eway, Personal Paint is the premier drawing and mage processing program almost everything including high years of development, it provides won't find anywhere else

One of its unroug functions is the ebrity to make use of ARcox, and this can lead to some very impres-

What is ARexx?

ARexx is the Amign's bull in script-Affects organized can be used for something routine the file meintespecial - end the Amiga tog - is the way ARexx can integrate lisell with

have an "ARexx port" makes availections. ARexx can automata processes, or even link two or more progrems logether

Personal Paint has a very extensive ARexx part, which makes a commands appear in the ARexx they are very easy to implement.

and this makes it easy to create your own "macro lunctrons which

This makes it easy to process

batch operations (such as converting a list of 100 images) or parforming complicated actions with total accuracy such as drawing lext Inside a circle

Preparing for ARexx

metalled and running. There is every chance that this is already the case program is installed and that it is

run >elt: <nil: RexxMest

in their user-startup sequence so that it happens automatically every ground weiting for an ARexx program to sturt. Affexx programs can from the Shell, er from within an | polication

Personal Paint and AResox Personal Parol has a selectron of

all ready and warting for you to use to get started, simply run PPaint in

You il notice on the toolber on ARexx execution button, and it means you can quickly use Aflexx

Left circk. Run the currently. selected ARexx script. If no script has been selected, then try bringing

Right circk Bring up the list of

Alleger scripts and let the user prok



A The seriet soluction tool opens when you right clish on the Alfanz toolbur ions



4 De Men ices sa the holler melan to custode scripts from witin) Serviced Paint

Using the supplied scripts



on the Affects icon on the thelian



A Ston? When the list of scarpta appears, safest "Circle Taxt" and click an tha "Tenorie" better.



looks an though nothing in happening However, Personal Paint in waiting for you to draw a circle. Click in the contra of the screen with the left meson button, and with the lesthas still held down, drop not the audies.

Let's look at one of the supplied and how much an integral ad part of Personal Paul it really is Experiment with different elicle and font sizes for the best effect. You can use drilevent levels of anti-shasing which blurs the text slightly and makes. rotated letters look much better although a graphics made with seversi similer colours gives best results



A Stor 4 When you release the better, the Settings wandow for the Errore Text tool will space, New yee can select the lost, the nice and the moonage you want to appear Wa ii came back to the other leatures later



A fites 6, lines you've choose the fact and wessege, click as Proceed and then watch on the text opposes on screen Larry

The Power of ARexx



A Sten I. Start many with a clour across and solact the Circle Test Affect script



A Step 2. This type after the Experien setting to about I S. Males now the text yes ore noing male with a space.

The supplied scripts

As you will have seen when select-

comes with a collection of scripts to

gel you started. You can get individ-

on the "About" button in the script.

The anim-brush structure is similer

To an ordinary brush, but can store

deating with only small portions of

PROPERTY OF THE PROPERTY OF TH

several images. It's useful when

unique frame for each image.

list, but here a a brief summery

Anim-Brush to Animation

Botanno text like that by hand would almost be impossible to in a law seconds. However there's still more which even this

This is exactly the kind of effect which the combination of AReix and Personel Paint make so easy. Trying to achieve the same days, so make the most of a

fifty for a really smart title to put on your Wab page or life Using

You can check all the fremes you have created by opening up



ferest process filters can lead to some excellent images, as don't be afreel to accomment

Animation to Anim-Brush

This script processes the durrent enrmetion, ell frames, and snepshots The screen in each case to make a new error-brush. This brush can Then be saved end used in subse-

Animation to Frames

As you know an animatron is contained in a single frie but consists of separate images. This script confremes, such as frame000, frame001 (for exemple, blurring)

Frames Io Animetion

ebove scopt, this is a takes a list of individual them into a single ANIM file This is e great wey to take Irames created by rendering programs and matron file for playback

Help files

As the name suggestions, these scripts bring up pages of help. The ARexx help is perticularly helpful as

Pelette Scripts

Easier and quicker than the palette tool



Process Files

standard ist. Then you select e directory All the mages in the direct are then re saved

This allows you to set up a betch process to deal with the fremes ple. The frames can be created from the ANIM using the other scripts described here

Text Whirlpool

as if twists into the acreiin. A nice effect, if you can find a use for rtl

Vector Font Path Selection

Allows you to select the directory which acele properly end without "isogres". Any suitable fonts on Your system will end with the " oteg"

Vector Text

This script will render the vector text This makes it possible to gat a per feel size and fill for envitext you need randered, with no "impaies"





The

Processing an animation

Here's how to apply a process effect to an entire animation. In this case, the fifty frame enimation will be given an edge detection process. To make it

1 First load the ourse bee ets Pfraist Thus is o 251 calour surnation courted to beautiful (60 frames in a regla ANIM Stell





5 Here the precess filter es applied to each frome or toon. For 1931le lana enimatrees, three might be as evernight jak

2 to order to moncess auch frame of the sematise, we aged the rediregard laster which make it so the open on the Affect script

"Asympton to

France "





COST TH-CHIRDhine the frames into e saught onnature exing the screet "Fromes to Animation' This creates o amele ANIM Six Inc. same p.

c liam we

3 Win ches wart as the nsparate frames son written, oan by eas, to the hard drive They will be BAYES THE baced names.





7 You aso see the unfividual (rawes which make so the aginutes by using the Starykourd. window

6 Rest wa see the script 'Frecess Silve", and amply the directory which con tains of the newly created frames, Thue we select the gracess we att party to

apply



Finally, Persenal. Paul cut replay on oow acimtries. Different process IN 1913 868 load to IIVII excellent images

AMIGUA Desiden Was a second



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Amiga C Programming



... ARexx, ARexx, a Kingdom for ARexx...

his month we're going to look a adding an ARaxx interface to our program. This will enable the user to unlike the full power of ARaxx to control the drawing (or whetever aspects of the program we make available through the

Interface)
To enable Afters to communicate with our program, basically all that needs to be done is to are ate a public message port. We've sleady worked with ports, because this is the way intuition communicates about user activity.

(through RICMM)
The significant difference is that the massage port we need to create is public. This means that other programs (in particular, the Aflexic system) can see the port and send messages to it in contrest, the port attached to a window is private, so only Intuition can send messages to tit.

can send messages to it.

Once we have our port, all we then need to dis accept and understend the messages that entire on it. This will involve making some small changes to the

Libery Library

A C library of functions in a ".lib" file, much like the Amige (shered) libraries we've mat before. The difference is that the eods for any functions used from s C library is added to your progreen in the final stages of complintien (ie; when linking), so each progress that uses the function has its own copy On the other hand, there is only ever one copy of code for functions in an Amiga (".library") library, and this is shared between all programs that went to use it.

AmgeLib (ie; the "amige.lib" file) is the most commonly used C library that you'll actually come scross. Intuition (ie; "intuition library") is an axemple of an Amige (sharad) library.

message handling code (in "idomp c"). The final topic of intereat here is the interpretation of the messages from ARexx.

Port Creation

First things first. We need to the can be done fearly easily using the "CreatePort(" function from the Amigable links library However, we need to make a public port, and to achieve this we must give the port a neme.

But we don't went to just blindly add a new named port if a port with our name already exists then our program cannot just continue in a more thorough program we

might deal with this problem by trying a different succession of different names (by appending "n", where n is a number), but for this exemple wa'll just fail the whole program if we can't make a

new port with the desired name
A naive solution to this problem is shown in Example 1. There
are two reasons why this code
ran't ideal. The first is e problem
ther's caused by one of the

Amiga's biggest strengths multitasking.
Our program may be running at the same time as meny other programs, and any one of those might went to create a port of the same name as our program. "FindPort()" merely ratums the named port if it can be found at that point in time

It does not reserve the name if it wasn't found so enother program could easily sneek in and use the name before our program gets to the "CreaterPort!)" call. What we need is a wey in which to prevent this and make our cre-

etion 'atomic'

If you're really alert you've probably just popped back after reading the description of 'atomic', nearby 'So, you're probably expecting that we'll use a seme-phore to make our creation code atomic Unfortunately, this is one of those cases where we fon'!

Example 2

2int createARexxPort(cnar* portname

Int success = FALSE:

char* error = NULD)
/* First, Exet turn off multi-tesking so we can
ecosucly add our port */ Porbid();

/* We can only succeed if the named port doesn't already exist */ if[FindPort(portname) == NULL)

/* At last, make the port (priority 1 to enable fest
searching) */ if(arexxport = CreatePort(portness. 1))
sudcess = TRUE;

error = "Error: cannot create AReax port\r

else

error = "Error, cannot create ARexx port (the name already exists | \n")

/* we must not could be seen that the result */
/* now we can print any error and return the result */

/= now we can print any error and return the re if(error)

eturn success,

Example 1

/* Make sure the named port doesn't elready exist */
if(FindPort(portname) on NUMA)

/* Now try making the port */ if(eremoport . CrostePort(portname, 01)

/* Succeeded *

Example 3

struct RexxHsg* getARexxHsg(

return (struct Recoding*[GetMag(erecoport)]

Example 4

vold replyARexxHeg(struct RexxHeg* mag, LONG rc, char*

/* Set up reply result values

/* If the reply expects a result string, create one */ (= NULL)

/* Now we can reply to the message

Example 5

struct RexoMsq* msq.

/* Now clear out any outstanding messages .. */

while (msg = getARexxMsq()) replyARexoMsq(msq, 20, NULL);

...and now it's esis to delete the port "/

have that luxury Instead we must can help you debug your prouse the elternative of turning off

"Forbidi)" and "Permiti!" functions to brecket our critical code (see Example 2) This way, no other program can do anything in between the cells to "FindPorti)" end "CreatePorti)", let elone cre-Unfortunetaly the use of

"Forbidi)" adds enother complicause any DOS library function) This means that we cen't print

messages to the console using "puntfil" since that actually involves fila I/O, So we remember envierne string in the "error" variable and print this only after the "Permitif

point, but one that even seesoned Amiga programmais can fall foul of especially when doing dabugging adding "printf()" statements grems, but if you add one to a section of code between "Forbidi)" and "Permit(I" then you'll be causing much worsa

Example 1 is fixed in Example 2. too it s a family minor point, but the change is to make the new port be created at a prigrity of one lather than zero. This is because ordinary (non-public) ports are created at priority zero

There's usually a lot of them and it's only the creating program that's interested in them. Our public port will be searched for by ARexx so we should make it's job as easy as possible

Using a projety of one means that ARexx will find our port before it even looks at all the pir-

Affect Viessages "erexx0") defines our ARexx port

Example 6

/* Process an ARexx nessage */static int doAMexx(struct Rexiding* mag

10NG TO = 20. if(stroop(mag->rm_Args[0], "QUIT") == 0)

/* We recognised the command, so set ic to zero *

rc = 0; result = 'Hello Painter is quitting';

replyARmonNeg(meg, rc, result);

functions in the file "siexx of Afters requires that we give some sages it sends, so to help with "ontARexxMspi)" (see Example 3)

Exampla 4) honest about its real type an Aftexx message isn't a simple

"struct Message" it's a "struct RexxMsg" Our 'getARexxMsgi)' performs this type conversion by Replying to an ARexx message

era two ceses to consider we

acted on it successfully at we

a further subtlety. ARexx may have requested e result string (which can be used to help the user know what the message did in your program). This result string is not obligatory but strongly recommended

"replyARaxxMsoff" also takes e result code and a result atning These will form the "rm Result" and "rm Result2" fields of the massega being returned, with the only be supplied if the message requested it (via the

"RXFF RESULT" flag) and the pro-



The last subtlety is that the result string must be supplied as an ARexx 'aigstring', and so "CresteArgstring!)" is used to con-

vert it.

The remaining part of 'arexx'c' is the function 'feesARexxPorti)', which deallocates the ARexx port we created 'This must also ressue that any pending messages are replied to properly (ie, the port should be flushed using "replyARexxMsg()").

To remove the possibility that any more messages can arrive whilst you are doing this, the Arexx port is first removed from the system's list of public port (input the "RemPort!" function!

Once all the messages have been replied to, the porticen safely be deallocated by using "DeletePort()"

Acting on Messages

The fiamework we've created is used in "man o" (setting up and destroying the port) and "idomp.o" (hending the massegue) The handling code is piet, yit amphiforward, it's just another port to listen to. The interesting code is the "GARlexxi".

function (see Example 6)

An AReox message we receive corresponds to an AReox command, and this is stored in the first argument arring in the message ("rm. Args(0)"). We can use

the standard C function "strcmpti" to compare this against the compands we want to accept

In the first example (in the "areix60" directory), the only command we ellow is "QUIT" (see Example 6)

If we get this message we reply with a return code of zero and a suitable return string, and then guit the program in the normal way (ie, stop the main message loop by setting "going" to "FALSE")

The second example (in the directory "seexx1") builds on this and allows a couple more commands ("PEN" and "DRAW"). Of most interest is the use made of the standard C function.

"sscarf()" to paise the more complicated command strings "sscarf()" is an extremely powerful function, which we'll look at in

the future. For the time being, you need to boot up your "RassAlvast", run the second example and then type "fx test.leox" in Shell window (see Example 7 for a listing of the second example's "test rexx"). Have fur! **

Jeson Hulance

Atomic code

A purce of code is storaled if it is guest attack to be secreted in one lump, without any other programs Interferring, in a multi-tast certain sections of code are storale. A submired storale a sections of code are storale. A submired storale is settled to deal and the storal sections of the storal sections of the storal sections of the storal sections of the storal sections. A submired section of the storal section is settled to the storal section of the storal section is settled to the storal section in the section of the section is settled to the section of the section in the section is settled to the section of the section in the section is settled to the section in the section of the section is settled to the section in the section in the section is settled to the section in the section in the section is settled in the section in the section in the section is settled in the section in the section in the section is settled in the section in the section in the section is settled in the section in the section in the section is settled in the section in the section in the section is settled in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section in the section is section in the section in t

of them succeeded!) So, the code that decides that a file does not already exist and then makes a new file areas to be atomic, at least from the point of view of any program that wants to create files. Atomicity is usually essured via a generic mechanism of 'sem aphores', or by temporarily turning off multi-tasking. These days on the Amige, the latter approach is frowned upon, elthough it's sometimes the only way to do things if you can use a semephore (or some other tocking mechanism) than that is grastly preferable. (This is a big topic that wa'll return to in the future)

Example 7

/* Test Arexx communications */
options results
address heliopainter
do i = 15 to 1 by -1
pen i
drew {0*1 40*1 *Ri from ARexx1*

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Net God speaks Usenet is approaching meltdown. The amount treffic is fer in excess of what the original concept expected, or even what it

was a few years ago
UK ISPs are regularly
handling over 9-10GB of
massages each day, with
US ISPs handling up to
11GB. Ask anyone what
the biggest problem is
with Usenet and they will
probably answer with one
word. "Soam".

word, "Spam".

Spam, mass postings of urelevent information, usually get rich quick seams or equally undesirable things, is certainly a burden on the system, but the reaction to it is even more so.

There are now numerous "cancelbots", computers that scan for offending messages and eutomatically send out cancel massages, so for each spam message there are many more cencel messages that the total control of the total usenat messages in a day can be cancel messages in a day can be cancel messages.

Add to this the Interminable threads on spam, the replies to spam messages, oftan quoting the whole of the original message and you can see why the reaction to spam is causing far more problems then the spam itself.

Surf's Up!

Thet Net-bloke Neil Bothwick gives you the lowdown on enother cluster of Internet sites which are well worth visiting...

JavaScript... when?

There's not been much new internet softwere released recornly, but that closent mean that nothing is happening. The only browser release has been an update for Voyage (2,92/4) with the authors of all three browsers, are working on mejor updates. The first couple of months of 1998 should be very interesting, with JeveScript cepable versions of the bro three distributions.

the try three due JavaScryt is more important for Amya users then Java, once at least one Amya browser can handle it we can expect JavaScript to appear in many Amya users' home pages. You can expect a JavaScript tutorial as soon as we have a

browser capable of hending it. So, which between will be first and, more importantly which browser will do it heard, more importantly which browser will do it heard. One difficulty facing all of the browser programmens is that Microsoft end Nassapen have decided it in a signoid data to make their versions of JavesSonpt incompatible with each other well just have to wait and see how the Armya browsers deal with this

Socks for all

Last month's Suri's Up reported the release of a bate of Marmi 3 one of the new leatures is SOCKS support Now a SOCKS client has been released for AmTCP The current version is on this month's CD, or available from ftp://ftp.amlnet.org/pub/minet/comm/tcp/socksproxy/ha

Non-Wintel news
If you want to know what a heppen

VoyagerNG

ing in the wider computing world, you usually find the news is dominated by Intel/Microsoft ennouncements. Convergence International is an organisation dedicated to support usage and development of all non

Convergence

Intel platforms

Wintel platforms. They state I'Ve believe that it as time comes when one single platform is the only one muse the computer Industry will suffer Winthout competition there is stignation, and no one patiern can be stignation, and such as the state of the state of the stignation of the state of the state

http://www.convergence.eu.org/ contains importent news on developments on a wide range of non-Wintel pletforms, including Acord, Ampe. Apple. ARM, Be, Psron.

Golden Emerod damo released

IRC bots are another of those necessary evids' brought about by those strange people who get their kicks from spoiling others fun. Although they can provide many useful functions to users, one of the men ressons for a matelling chemid bot is

to prevent channel takeovers and other such antisocial behaviour Golden Emerod is such a pro-

other such antisocial personal of the discount of the discount

Amiga RC5 team keeps making headlines The Amige Team RC5 effort is con-

The Armge Team RCS effort is continuing well. They are now working on the attempt to crack a 64 bit, key, and processed the first million blocks in only 35 days, the sixth

learn to do so.

Whether the key is cracked by an
Arrige or not the fect that the
Amina name epipears in the top ten



rankings can only be good publicity
You don't need to be using only
Amige to use join the Amige team,
and the new client works with
machines that event connected to

the Interest.

So it's now feasible to joint from a natworked computer and work end take books of keys home on a flop yill dark by force of a flop yill dark by force on a flop yill dark by force on a floor of the force of the first in take ing. currently processing on your Ampa, A Powerf Cent is in testing, currently processing over the first think the speed of a 6808050, and you should be able to run the 680 poughan on the 68000 chap of a CytapPPC and at the same film Sine Nto, //homepage distronal/investory. The first of the first one of the first of the first of the first of the first one of

Neil Bothwick



Surf of the Month

The man Neil Bothwick takes some precious time out from compiling our CD to cruise the Worldwide Web, here's the results...

here's a tot of web sites
that have been created by
Amrge users, grying lie to
the tala that you need a PC
or Med to do snything
worthwhile on the WWW
Then after have been set up to

Two stees have been set up to mphlight he impact of the Amge in this area end to show just what has been done with an Amge, arome software and that most important ligeredient of liveb page creation, some imageneous Bustr with Amijija also expears in the WMW section of our cover. CD-ROM, but the site has been recently updated. Suit with Amijia done Sectify with Amijia and Rout with Amijia done Sectify with Amijia Sectify with Section Sectify Sectify

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Butt with Amga not only shows the high quality web sites can be produced with the Amga, with ink to enumber of them, if contains deleted on the software to help you with thes it also emphasses the importance of ensuring their web pages work correctly on a wide vari-

The other, complimentary site is Mede on Arrige This is more of a directory of Arrige sulfibred sites, complete with a secret engine to find specific sites within its data.

It contains a large list of Arryge based sites, Indexed by category. It well as links to newly added sites and the almost obligatory "cool sit button. Both sites provide an misign into the quelity of web pages that can be, and are, produced using Arrigas only.

Do you want to lightness your system, but am't afford new hardware? Or have you already upgreded end want to sell your old hardware! software? Maybe you went another Arriga or as your Christmas money simply burming a hole in your pocket? In any case AmtBerich is the

place for you Amiltench carnes a large number of for sele and wanter ads for Amige hardwere end softwere. Whether you're buying or sell inc. edyectising is lies.

A number of Amge users absohave Paren palmtop computers. Even though the latest Senes 5 has even though the latest Senes 6 has one of weith a satil a very useful.

tool The latest news on the Psion web site is the release of the Messaging Suite, a







initial version dould only be installed from a PC, but now there's a generic insteller too and the best news is that it's free which ere easily modilied to such the transfers.

Although browsing the web in 16 colour greyscele on a small 840x200 screen is hardly ideal, it is a lat more portable than any Amga. The email softwere is most useful, ellowing you to check your amail environment.

the networking softwere comes with pre-defined dialup scripts for several

UK ISPs. While you're on the Psion site, why not drop them a mail ask mg when they will provide the information needed to port. AmpaNCP to the SS? Senes 5 owners should also take a look at Total SS I is almost the Psion equivalent to the Amiga.

Web Directory
The HTML Whiters Guild provide
resources for "World Wide Web
page eathers and Internet Publishing
professionals". It sounds a bit
grandiose but the site is certainly
worth having a tooke it contains
links to a wide range of definitive
WWW and HTML resources, as well

to making lasts and direct sevenus so lar time for e bit of fun As it says on the Obiter Zone "it is better then working." I'm not even going to otherpit to describe what you'll find here since I couldn't possibly do I justice. Just go to The Dibert Zone and see for yourself. One word of working, if you access the wab at work, make sure your boss doesn't

There were several new 'Arniges' announced at the Cologne show One of the most interesting looking is the Boxer There from page cui rently give prototype details, but mex contain more concrete informa-

URL's http://www.amige.wnet.com/BuiltWithAmiga/ho me.html

http://www.gonmad.demos.c o.uk/mos/index.html http://thunderstorms.org/

AmiSench/index.html http://www.peice.com

http://ady.net/paion

http://www.hwg.org/ NTML, http://www.dilbert.com/

http://www.cie.co.uk/-ind am/welcome.htm



Ilon by the time you read this # Neil Bothwick



▲ Fee and feeling letter Differt Zeve

Wired World

Met Bettinson continues the beginners guide to setting up a web page, this month delving further into Webplug's cepabilities.

est month we used WebPlug to lesh up a basic web page and then we uploaded this Internal Service Provider Av common cause of confusion has been how to handle working with the FTP site and creating pages that the faciproof prethad for creating completely relative pages that run

It's seferm-say that as you progeed past the most basic type of web page, you I want to include rmages and sub pages. Getting used plen before we get too involved index html end it thust reside in the front' of your web site. You have vir-

turily unimited control of your web privateds. That means you can place

Manageable web site Creating directories is optional but it more manageable. In the simplest pase, we could creat a aidirectory called 'mages' and use this drawer

to store all of the m line fmages on our wab pages. The root could still he used for the bant files thereselves in order to create a directory, your ISP with an FTP client and simply use the create or function.

White it's possible to link to rmages write a tag like < IMG SRC=http://www.yoursde.co.uk/ma good/dea Far better to use 100%. SRC-Images/pipture grl > which shally will do the same thing if they,

are found in a document at our site code will work perfectly of our hard web she We ake even move provider later will hout changing a smale page

your web pages. For example 'Assign MyWeb HDI MyHTML' which can be placed in your 5 user course. Now remember to create the directories you need here such as imeges

of what will be uploaded to the wab site later Just remember to use all

Jower case menames inis ayoids case sensitive but internet web

somewhere that is in your plug add to your s user startup. Then essuming wo've also make the MvMeb: ession we can do the followers and MyWeb run WebPlug

This procedure will save us from

having to delete the drive geme from the paths that WebPiug will include every time you insert an mage A gurck example, CD to MyWeb Create a directory any way you like you can just type "makedir images' in the Ci.I Copy a GIF or the jpg image from somewhere into the Images drawer, Bun WebPiup as we've covered above. Select. Functions/Header Give a name to <BODY>" checked and hit insert

Circle on the blank line and chaose Functions/Images glick on the pop-up file requester gadget sust gane according to plan, the file

The BCG legs in a price recupie of here to make a transparent fill and been to not a legs for a haringround lange for hing l'acceptaintean al-merebylech for the real thoug. p| [1] Voyager RC7 background test Back Forward Home Reload trager Find Print

Vapor -Here's the nice transparent RT Acupa Web

The background is the same logs Antgavror id with the contrast turned right dow set at diagonals so you get the re-

NebPing VI 27 1776-77 1986

PRC5 background test(/TIT (BODY BACKGROUND="I nages/backgr

SRE="images/logo.gif" ALT Here's the nice transparen achground is the same lo and white with the cont The brush contains two u get the nice staggered

Hebrius (Habes) Z A S E E Image file Images/sandra1 jpg Alt text This here is a picture Align [P ___ Use border Width 312 Height 480 +2 ×2 ✓1 Use size Haraca L. VSpace [11] ___ Use space

A Haw posts to the doolred maps about saly contain the directory selectables from the root real on Jumps drive datain. Then may the page will week anywhere

CDNow

Mail me!

It's customery to include a link on your home page that visitors can click on to E-meil you, it's called a mail-to link and naturally anough,

WebPlug hendles this for us eithough not out of the box This is a good time to learn a new function of WebPlug celled the Custom Tags Lastule. Select Functions/Custom Tags. Click new and you'll have three boxes to fill in. Fill the first one with "Mail me" and put this in the start box, "" where the E-mail address directly after melitor (with no space) is your own eddrese. Place "" In the End box. Fix this and save your custom tags descriptions

requester will abort from your

should now be surrounded by a Mailto: statement which will have

4TML and launching your browser

north. Click on your name which is underlined and whatever mail fund tion your browser employs should

图 图 图 图 图

fire up to send on E-mail to yourself

Backgrounds

Very breadly speaking, there's three main looks of wab if we want our

as with WebPlug, you'll notice there a a box to add the 4800Y tag or not. The reason is that if we want to modify the background, wo'd bost leave it off as there s a separate function for the back-

ground under Functions/Background cunningly This will add a <800Y> ting with the required attributes

To try out a backdrop, obtain a tiling backdrop image for use with Workbench The land that's a small brush that repeats to create o neveranding pattorn. It if probably be an in your images drawer in the Functions/Background GUI, click the pop-up godget for the Back Images box and insort this image

Insort it and load into your web browser you should soo the Ishage in the background but it may make text hard to read. In order to get an effective packground textore, it has to contrast with the foreground text so experiment with the text colour settings too You'll probably find that using an image processor to bump down the brightness and contrast helps greatly

Another nest offeet is to use the Emboss function of an Image processor (this is at Posent too) andplay with the contrast brightness so yed got a white background with a gen de logo etampad im 3D reliat You may remember this from the first incamption of CU Online

Met Bettinson



Address a sweller cardine log for our own soldress meson that we can quickly add a Habenson resille on the bottom of overy page without typing it overy time

You're so transparent

You may be wondering how some web sites make images that have transparent sections where the background can be seen underneath. This only applies if we have a textured background, of course, other wise it can be taked by using the same colour beckdrop se the images end some sites do Indeed do this.

However, to gain transparency we need to make a so-called transperent GIF. Only GIF 65s supports this end there are a few Amiga programs that will allow you to make them, Image Studio and PPaint & & from lest month's coverdisks being the obvious examples.

In PPaint the essiest way to make a transparent GIF is to obtain a brush that hee the trensperent qualities you desire Exectly how is beyond the realms of this tutorial but if the real background colour a designated as the background pen and you pick up a brush, you should find that PPaint will have successfully made the brush transparent. You'll see this as the transperent bits won't obscure the back ground picture as you move the brush ground on screen. Now all you need to do is save as GIF in the save brush menu, select GIF \$5e and doselect the same image formet. What you have is a bonefide transparent GIF which you can expariment with by loading into your provise:

One very important thing to look out for is that the edges may need to be aliesed towards the colour backdrop you have to avoid nesty edges. The most common effect is a bland to white used for white beckdrops, the bed news is that doing this is a little on the tricky side and to do it properly you'll need a proper image pro package such as Image FX. In this case you'd paint the backdrop the colour of your web page, load in your brush and pasts the Teather out' function enabled. Experiment Than drop the image with the auto function so it will grab orde the

pixels that have changed in the middle. The result should be a broad which has the edges elleses gently to white end it will look superb You might like to try a cute X-Files glowing effect by first pasting the image in a matte green a few pixels to each side, then stamping the Image in the centre. This works best on black of course

There's endless graphical tricks to use on web sites and the Amige's toolkit of superb graphics software should provide and ass opportunity to be a creative and original wobmaster. Energy mat@mats.nat

nspareraga RC5 logo

ame look everted to black and white right downerush contains two logos get the no gered repeat



Sound Lab

Shareware Round-up

Sound Lab takes a look at some of tha best of tha current crop of audio packagas currently available from the sharaware scene.

b ARI helps areresses the grabinata involved in perting various anness cards and software packnges working together in hormore



ie out cover CDs or an Internet connection, you'll find there s a wealth of quelity audro and music software svaluble for

next to nothing. This month's Sound Lab is dedicated to a round-up of some of the best examples.

Free Bars & Pipes

As you might already know, Blue Ribbon SoundWish's was bought by Microsoft of law years ago Shortly effer Microsoft mode at of the Blue Ribbon Ampa musis osftware Freely downloadstale from Computerve If you do not have eccess to Compuserve and ward these programs, you will be pleased to know that you can now get these programs on the with at the high without the programs on the with at the high without the programs.

Here you will find freely downloadable enchives of Bers & Pipes Professronal Enequencer's Patchmeater (generic parch (bteren) and Supectain (improvisational must generator). You can also download the following expension kits for Bers & Pipes Professional: Creativity Tools, Performance Tools Power Tools and Pro Tools and Profositional Tools Power Tools and Pro Tools.

Be sure to read the Microsoft End User Licence Agreement before downloading any of this software. You will also find a previously commercial algorithmic composer that turns algebraic equational into music for Bars 6 Pipes.

There are a number of mating lists and

with seas at U to support users of Blue Rebots ordinary from other horse disabled was size in called Modern Plambing which modules support for Bens 8 pipes. Patchmeater and Suppuliam Here you can find helpful jup on drest, workroundly adapted to buge new Looks, accessores, drivers and spiles hipp News weachink comi-yearhologic Or year Richard Hegen's webstate for more information and innis to other support sites http://www.ss.urg.edu.edu.ph.ch.

To subscribe to a mailing list for Bars 8 Pipes and related software send an amail to (techtigexeculint.com with the following command in the body of your amail message subscribe bSp cyour amail address>

Sound FX

One of the best digital audio processors





gam by Salan Kost called Sound TX. Sound TX holdedo one Sel Berlick TR more common types such as smplitler, chorus, delay ecto, envelope, coulcisation, filter, one guide, pass, pheser pitch shift, and reverb serial el miculad story with some more sureasist, feld, general, soge more serial self-ector of the more entreasisting feeting that shirts CP on of the more entreasisting feeting that shirts CP on of the more entreasisting feeting that shirts CP on of the more entreasisting feeting that shirts of the sound encoding that are not been selected sound encoding and that are not been selected sound encoding and sound sound shirts for sound encoding and more selected sound encoding and sound shirts are sound encoding and so spectrum snalvars. Source transformation) and even sound shirts shirts sound shirts are sound sound shirts as sound shirt shirts are sound shirts as sound shir

Every function has extensive parameter and modulation options and the cepsibility to save and lood your own affect configurations. Through its fully developed Affect por you can create automated processing sorpla or even generate your own digital effects.



▲ Let your Anige compare ned glay its own terms in realtime with the fractanting Algoblasic

Sound FX moladas looders and severs for all common sudro file formats including Sample Dump Standard (SDS) Studro 16 and Yameley's TX 16W format Audro playback can be done through the Arrega's builtin audro chip, Paule, with B-bit and enhanced 14-bit medes or we AHT to a sound card

Sound FX requires all least OS 3 0 and as any program like this, the more CPU power and memory you have the faster and better it will work (some processes can take agas). Support for virtual memory is currently under development. You can get recent exchange from Ammet (found in the musked section). All the railwest archives are named "size, something or other."

Alternatively visit the eather's website for the latest version of http://www.imn.htwk. lalpzig.de/--kost/SoundFX.html

AmiSOX file converter SOund eXchange (SOX) is an audio file for-

met converter it is as been ported from the UNIX version to the Amiga by David Champron, AmigX CM has been excluded for sev and years, but termine is isvounte and efficient conversion utility. Currently, the Amaga version supports the following formats RAW, IRCAM, Sound Blastier, SPARC, AU, Man HOCM, PCDIOS, SOU, Sindipol.

Sunrize support

Approximately a Superior ADNS of VSIS envolued and might have failt a bit distensed from the record developments in Animy Set-Bill solling, and the limited set by these systems are non-standard. However, Kennels hillies has managed to listion the mysterior of this Settler 16 fearms and southed set the results in the form of developer docs. With any lock this should mean we'll ear man Studies 16 support from the established 1956 enrolling personal period of the settler of the Settler Settler of the Settler o

WaveBeast virtual synth

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in

take

nga

WeveBest is a freewers softwers synthesiser developed by Merco Thrush and Jen Krutisch, it is currently in a beta stage but is publicly available

Sound generation in controlled by two oscillators with standard waveforms (noise, pulse, sewtooth, also, square and triangle), two 24d8 four pole fitters (low, high or bandpeas), four multi-take envelopes (VCA, Pitch, VCF1 and VCF2), five LFOs (pulse width, pitch, VCA, VCF1 and VCF2) and digital effects (daley, fuzz and reverb).

It also includes a 54 step sequence with adjustable tempo, assume transposition, and step settles silled and potentian parameters. It requires at least 05.3.0. MUI and AHI An internally acclusation process in necessary to generate waveforms, and to deserts operation in real-time. Let of OFU power is good but not required. The process is produced to the control of the control o





Sounder, NeXT SND, Windows RIFF/WAV, Turtle Beach SMP, and Apple/SGI AIFF and

In addition to formet conversion, it can also do some simple digital processing echo, filtering flow, band and high peas) mix resampling and vibrato. You can get the letest erchive from Ammet. AmiSOX33 liamustrékit, 316K SOX.

AlgoMusic

If you would rether leave the song writing to your Amiga, or perhaps you just need some mapriation or entertainment, then Thomes Schurger offers his giftware program Allochiusm. Songs are randomly composed based on a series of pre-programmed rules or eligible returns (Senicially, programs of this type generate muse on a specific style of series and series of section of sect

melody and speech parts in its compositions.
The program comes with many of its own samples which it rendemly chooses from when composing. You can, if you want, add.

your own samples. AlgoMus. requires a least OS 2.0 and Mul is also required a least OS 2.0 and Mul is also required a least to use the preferences program. Cuparameters are also awardsheld you do not have Mull wratified You can pet the state archive from Aminert. AlgoMuse(2, 3.ms emulyimor or visit the author is verboare for the lettest versions at http://fishinfo.cs.unab.oe.—achieurge (AlgoMuse).

Audio Hardware Interface In an attempt to bring a standard to Arriga audio, Merbin Blom developed the freeware software (donations epiprociated) called AH AHI is an audio subsystem, designed to be expendable hardware-independent, and system compatible. It allows applications to

share the audio resources, so that several d WaveBack organisms can process sound almultaneously offers o notion of captrel samels Delfma DSP Delfina Lite DraCo Motion. that minick a Maestro Pro. Melody MPEG. Psula (Amro) hardware evelo then peac eff built-in), Prelude, Toocete and Wavetools You end residers weld can get the letest archives from Ammet nasur's which shidevihe devimes 339K cas that he ext-

ahiman lhe docs/misc 267K ahijus lhe mus/misc 287K or ylart the author's website for the letest

www.lysater.liu.se/[all.)/--lcs/ehr html

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■ MIDI asses resulting to court more control over their goor new well control for with MIDI SYSSOM Explaner (MSE to its friends).

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mg to the Aringe MIDI world MIDI SYSTEM EDiplore MSE has been despired to control EDiplore MSE has been despired to control all space of MIDI data through a programmation of the system of the system of the were control. MSE can be used as a shingle were control. MSE can be used as a shingle yearth an EDWING the war to enter MIDI indomation from manuals to control almost anything. Possible applications middle. MIDI indomation from manuals to control almost anything. Possible applications middle. MIDI world indomation of the system of the production of the system of the production of the production of the production. The production of the production of the production of production of

arze end position fonts, borders colors gad get placement etc can all be customised. You can also define the character set. MIDI port and much more.

MSE has direct support for the Sheribbot htsruy (ISBP finjellinePhilas). CAMD 'brarry (DalumeMusici and MIDI Interna-(Pip) allowing simultaneous use with other programs that also use those (Ibremes You can get the listest serbary form Ammest MSE (his musimath 191K or visit the AMD ISYS METER SEQUENCE STATES). METER SEQUENCE STATES AND ASSESSION OF Promose Terman of the AMD ISYS Debrooms Terman of the AMD ISYS METERS AMD ISS METERS MET

On the CD

You can find all the freely distributable software mentioned here on this month's CD in the CUCD/Megezine/SoundLab draws, elong with over 600Mb of other great software too.

Desktop Publishing

Professional Page 4.1



Larry Hickmott is hera again with some more tips and hints for using ProPage 4.1. This time with a view

to designing Web pages.

he main ressan I use
DrawStude as for creating
titles for desktop publishmg work I undertake buil
The good news for experience
DrewStudio user is that the principle behind creating titles for for
can be applied to making titles for
video web graphics and lats mare
Lists say you went to create a m

tage in using DrawStudio is thet the same image can be used for all your needs if a printed copy is what you want, you can print the image from DrawStudio, which is especially affective if you have a decent colour printer, TurboPrint 5 and version 2 of DrawStudio Anyone Wrib has the CD cover from the book I publish on its CD cover from the book I publish on

ber of different ways. The advan-

DrawStudio will no doubt give testimony to that.

iff however, you also need a bitmap copy of the image, you can export the fille at a resolution suit able for your WEB page, video application or for any other use where the image may be useful

The example I created for this utdorlet was exported 1200 pricis wede and on a desktop printer on A4 paper, printed fine there's more As well as needing to only create one strage, you can elso export eny copies of the porture you need in vanous graphic formats suitable for WEP pages, UPEG 6 GIF), wideo (256 and 24-bit IFF-ILBM and other platforms (BMP, TER-ILBM and other platforms (BMP, TER-ILBM and other platforms (BMP, TER-ILBM).

so on! Which leads me to this month's Iutonal, The image is based on en rideal saw in a magazine advert end contains a number of Ihlings which I will explete so you see some of the

DrewStudio Life and DrawStudro Dg ramember however, that

The The Transparency will be lost if printed or exported from DrawStudio Ute. This is because transparency is only supported by

Iransparency is only supported by 24-bit pinil and export modes that are conterned in version 2. If you want to print or export

images with transparency mtact then you will need to upgrade to version 2 for the petity sum of £28 95 including postage. Call me on 01906 370 230 for details. ■ Larry Hickmott

Looking Good

Take a look at the exemple picture which is the beals for this tutorial and make a note of the elements. The overall theme for many of the elements is a place

of text with a blurred shedow of some sort which fles over the top of a bitmap image.

A Here is the result of the tutoriel A picture created in DrawStudio Lite but exported from version 2 so you can see it on the page in this tutorial.



A Step 1
Thing the Place semurand wheat in on the
Project moon, support a brimap song a file thin
For show that here Brundburde VC, this image to
on the CH in the Toropeo directory
(CERREL-Phil



▲ Step 2.
Thing the Text tool, type sweet text even the littings image. Our the Feet Ican on the Text excess to the top the feet Ican on the Text excess to the top the text to a style you sweet for your long it. See your because you seen't be table to do it lates:



A Step 3
Convert "Connected" to a Basin curve many the
connected in the Original serve.



▲ Step 4

Choose Deprise from the Object cores. Their dislate the series of To a vestions, click over on hetero. C, half despite, of half despite, or half despite, or half despite, or half despite, or half despite town. Their allows you to popy the gradient to all the letters are you object.

Problem Solver

I have used DrawStudio for two years with no problems. Minity because the 150% tase are problems, the standard in terms of what software is raining on Workshach, Mill is the unregional transing on Workshach, Mill is the unregional transing of the standard in the standard version we distribute with the program, I've no patable in my Userstatup and regularly ministell Workshach to take pit testing and uncompated. Thank good it's much sealer than ministelling Windows 851 Anywey, here are some tick for your Anywey, here are some tick for your Anywey, here are some tick for your and the problems.

Magic User Interface

First up MUI. In most cases, the people ringing me have been those that have a registered version of MUI 3 6 or ere using MUI. from the CUCD that contained DrawStudio Lite. Those that heve MUI from us heven't had only problems.

If you are using MUI 3.8, rename the current MUI directory to MUI3 each then creatse naw drewer celled MUI in the same pertition. Now Install MUI agein and leave the MUI acttings alone for now. If you are running MUI from the CUCD, just install MUI onto your hard drive. The Installer will make the drawes and add any assigns.

Try running DrewStudio now. If you still have problems, make sure the MUI Window refresh etribute is est to Smort end not Simple II the program still hee problems when you import bitmaps for exemple, this is a MUI problem.

In my experience of talking to those who've had problems, most were caused by MUI. Someone couldn't get DrawStudio to MUI. Someone couldn't get DrawStudio to unction but after shenging to a stenderd version to get Browse to work, they also found DrawStudio worked. If none of the above works, see Last Resort.

NTSC Problem Solver

Mese is a quick one for our American cousine over the water, if when you run DrewStudio it cen't open a screen, try changing your Workbench to a PAL screen (Use not Sawe) and then run DrewStudio and choose en g. NTSC screen for it. Now reboot your Amige and all will be well. Another trick is to rename

the "DrawStudio Lite prefs" file and see if that helps in running the program.

FPU?

If you have an EPU end have problems with the DrawStudio Lite FPU version, here is little difference between it and the non-FPU vereion. I've used both and not visually noticed any difference. It's elso come to my estention that this EPU problem was non-existent in the VZ uporade.

Last resort

A useful tips. Sectup your coment Workbench to drawer (such as WB_Bestup) on another pertition, tornet is so Luide option if you're pertition, tornet is so Luide option and then removally your Workbench pertition and then reinstall Workbench using the set of disks that came with your Analys. I spoke to sometime with your Analys. I spoke to sometime with your Analys. I spoke to sometime the set of the set

Looking Good continued...



A Step 5 A blowy is reported using the WorkSteppe even han. This prives regulates the 6 defended rate of the blowy has a winth heldprist, these francapency to be under a sea of the bids whey you place the picture as the page, filter than image own 24-bit where the colour policy 10%. 26% to 10% t



A Stop 6 A succeed background brissap or placed on the page for offset.

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A Step 7 New sheek the Dans From

Settings more, choose Preb. From the Creation Prote passel, change the Close effort to it or a may a firections. It means when you creat a class (right Amige d, it also right on top of the original. You was re-position it ming the accord large as ma' it see in the root leve stops.



A STEP 8 Cited on the ward COMPLET. Uses it not answer the close to see a risk closery from the neighbord. Jupit in very prompting to the like which depicts of their seek on a 13% block. Liken the liter, thomse Blynchighers mere since and scale the close IV bigger by anxiety 18% on the close IV bigger by anxiety 18% on the close IV bigger by a sightly now the case ye and liter. Closer was and new and large a coding closers seell year get the bilancing at Nicol powers.



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proved stall to create to a reflect.
This was word door by raining a very innerspanied black and meeting noch clines a timy assured at the loft willbest any smalley up or forms. Duing a limit style fining gives the Impression of convenent as mail.



were treesperancy for ecode an augustation of any report but that trees one a self-division for the law layer and "many-rest within force financial. The closer yee zoon, the lane movement thous in an you prive the current lay to sweet a effect.



▲ Step 12 On the example sumps, you will me a fine connecting Paths pictures of north, which incidentally was taken from Phase 1 Ch. Then time more drawn aming the fluorelized test.

A sign with then toned in so held down the which bey which alreasy then lime (heapy it a shright). I done the control of the lab, deadler which the left modern in street. Then time for green is heavy line when the if it points used in lifeway (III as no seen barr.



A Step 13 This is what the final copie leving like in Promitted Line. To contact this natural range, I found the second Be not server 2 of Promitted and superand as a 24-bit 2010.

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Gerry Broad

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" BY BLUT TO ARE FOR ARRYS OFFICE WHEN MAKING YOUR PURCHASES! OR MINE OUT. PLEASE MAKE CHÉQUELO DI L'PARABLE TO A LLOYD FOR ONDERS OF TWO POUNDS OR BELOW WE ACCEPT STAMPS

Next Month AMIGA

Quake

It exists! Quake is finally coming to the Amiga courtesy of ClickBQQM, and you can find out all about it exclusively in the next issue of CU Amiga Magazine. Along with a major preview

we'll also have a playable demo on the CD! Promising everything that made the PC version such a hit, it looks like taking Amiga gaming into a whole new dimension.





Only in CU Amiga - March issue on sale 12th February



Calling all user groups!

Do you run an Amiga user group? If so we want to hear from you.

We're starting up a new user group directory, aimed to help you attract more mambers and direct lost souls to local like-minded enthusiasts. groups from all over the world. Once we've done that, we'll publish and update it each mandh in these pages of CLI Arraga. Assuming we get second in time, we'll print the first latery in the April 1989 ease of CLI Arraga II you'd like you'd bb or user group to be included, armly fit in the form below as fully as you on [48 supplier information will be published] and send it to the address below.

Our arm is to compile a detabase of Armon user

User groups CB Awige 37-38 Millhurhour Into of Dogs Lundon F14 977

☐ Emuil

Alteractively fax it to 0171 972 6755 or eva the coline version of the form which can be accessed from our web site at yowy ca-amige co els. This service is completely from of charge.

0 - 0 0 0	
Please include my amiga user	roup in your monthly listin s
General Tocation	Group pams
Tel; (specify solvable hours/days)	E-mail:
Pestal eddrass:	Web site:
	Contact name:
Details: (eg. meeting times and places, carrices offered atc)	Prefered contact method: (please tick)

OSA

Never mind how baffling your technical problems are, put them to our panel of experts and they'll do their utmost to astound you, with in-depth knowledge and solutions. Don't forget to give us as much details on your systems and problems as possible.

Logos

Mysteries and magnings



Solutions to those everyday troubles with your Workbeach



If you need help getting more from your Amige, just aski



All your internet end general comme problems swiftly solved,



Trouble meking your Amige sing? We've got the answers here



Technical metters beyond the scope of plug-ine and plug-one.



Answers to queries on particular pieces of software. General queries



which just don't seem to fit in enywhere else. Specific help with CD-ROM solutions and



Problems with ert and design? Help and advice is at hand



Printers, monitors, we'll solve your peripheral lates for you.

Bigtime upgrades



board really badly, and to put my beloved A1200 in a neo big tower case Unfortunately I missed your Amiga tower senes so I we had to back

order thom
I seem to be quite lucky with
upgrades at the moment. My finend
sold me his A1200 for £50 with TV

add mo his A1200 for ESD with TV. So I pat my A500 under my bed and fengot about in Later a PC owning friend of mine gave me a 540Mb 3.5° HD for E1sit Howevers, I still years for more gower I was think a pabout tograding to a 1230-V 50MRz boeed but hiswing strough more cerefully about if I want to go the whole hog and completely transform my mechine

have eccess to a PC midrtower and some memory SIMMs and I om not afraid of a little screwdovor work. So have are the inevitable questions.

1 Does the Z3 board from Blittersoft make the A1200 into ea

near to an A4000 as I'm going to
get without shelling out for one? lo.
Can I put a PowerPC 604e accelerator board has A4000 CPU slot
and use the Zorro III slots and other

2 It i use a PC menter and the correct adeptor will I be able to use all screen modes without likefer or do in need to get a graphics card with scan doubling capability? If so, which menter would you recom

3. What is the best option for external keyboard? Should I buy an A4000 keyboard or should I get a case for my A1200 one? Will I need on adoptor either way?

Any help you could give would be greatly appreciated. Well I think that's it. Oh no, one more thing I won't hear a word said against PC fowners! Why not, I hear you cryl.

Well if you can be mend one of them who is a constant upgrader you can persuade them to sell (or give you) the parts they remove 16 speed CD-ROM here I come!

Nick, Stafford.

Hey, you like your exclemation
 marks, don't you!

1, in theory, yee. We are still weiting for one of these boards to he sent to us, but no luck yet, it does indeed promise to take A4000 style eccelerators and Zorro 3 cards, but how well we cannot sey We've seen them running PPC cards and Cybervision 64s very nicely, if this is the herdwere you ere efter then you should be fine. Other hoards may not be an competible. As for whether the Zorro 3 Implementation runs se feet or ea compliant as it does on an A4000, probably not but we can't say for sure until we run some tests on it. However yes, it is as close to an A4000 ee you will get without | buying one

2. Yes, you will want a scen doubler. Normally these connect to the video socket on an A4000, but the Micronik boards have a problematic video socket. We recommend you either get an external scen doubler or a graphics and with a passthrough adaptor. With this kind of set-up, an SVGA



Tech Tips: Cheap HD floppy

ware sont us on excellent to for people who /eminet/bard/hack/hidensity lhe or CUCD 16) to give their Amige the fecility for HD disks. He telle us. Tjust thought I'd let you in on a lit-

et

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PPC

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n it

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/GA

went to tell you This is meinly of use to prople who bought Tower systems, floppy drive An Amige competibie high-density drive (lormets to 1 556h) is either a Panasonic JU-257A605P or JU-257A606P These ere low-cost and can be bought as a PC drive with a Face-plate! I have successfully jury rigged one (that I borrowed from work) into

fine " There is a minor problem designed to be multiformet, and in their infinite wisdom Panasonic hardwired the switches PC floppies while Amlgas have Diskchange on pin 2 and ready on pin 34.

PC floppy drives elso have their drive select set to 1 - df0; should have this set to 9 In other words. you might find yourself with a less. then 100% compatible drive unless you make sure that you get one which is configured for the Amuse oin out. Fortunately, Richard tells us HD floppy drive enyone? Call Analogic on (+44 (9)181 546 9575

monitor will do. lyieme ere en excellent if slightly pricey monitor. Smile ere a good budget renge 3. Slittersoft [+44 (0)1809

261466) will sell you a Micronik keyboard edeptor which will eccept either Amige or PC keyboards. You can either find yourself on A4000 keyboard or buy e £40 kit from Blittersoft to put your A1200 keyboard into a keyboard case. However as very good quality PC keyboards can be bought for around a tenner, we would recommend getting yourself one of those Instead Ateo Concepts' PC keyboard interface is probably still the best we've tried, give them e call on (+44 (0)1705 780211)

Beer Budget A2000 I wondered if you'd like

to do a lower budget warsion of your advice on expanding on A2000

B is for B2000, and I have one lift. used to be an A1500, but the block sticker was ugly) - one of the last of It came with 1 mag Chio RAM,

GVP SCSI controller with 8 mags of Fast RAM, hooked up to the 50 meg. HD mounted on it I50 maps was a lot in those days), end a fourth-hand 320 meg 5 25' full height drive in the case. Oh, and it's got a 2.04. RAM-load 3 0 from the HD (sshhi)

I sold my A500 and bought an Commodore when they said

"Whatever happens in the future file

students have no money I have been saving up, and can now afford (mancially neplected computer Am I all the other fun stuff, like a graphics maybe a CD dove wouldn't be I bat much good without it.

And it's silly to have more CPU computer especially when PageStream can take ten minutes to

2846/40 cerd a good deal or would do better to hold on for PowerPC even wait and see it I can get a new mechine (an AlBox?) when they for a 69K socilerator and a conventional graphics card, or go for PPC and hope for an A2000 version of

were more powerful, I d like to use In perticular, I'd like if to be more

useable as an X-terminal for the university meinframe (free Internet connections ere great), all the moment, it can't even cope with running the (56K) modem et over 19200baud.

What do you recommend?

Duncen Gibb, Edinburgh

OK then! Your budget for expension is tight, but never say that mirecles cen't be worked. As you rightly seld, number 1

priority is the CPU Forget PPC, that will be way over your budget tor e while yet. In fact, I would suggest you use one of the uni computers to check out http://thunderstorme.org/AmiBen ch where you can post or read adverts for second hand emige gee: The £250 phase5 card is excellent, but you should be able

to get something eimiler for a fel-

A CD-ROM drive is a must they are fer too useful these days not to get one A SCSI Internal device will cost you very little, envehere from £36 up. Grephice pards are not necessarily out of your reach either, Slittersoft |+44 (0)1906 261466) sell the Picesso 2 for £129 95 new, or try Amilbench

for that too. Fester seilel can be done. elthough it ice't emaziegly cheep. Cell Active on (+44 (9)1325 352260 and sak about the £80 Hypercom3Z. This has a fast perellel port as well so your printer problems will be solved too.

A quick calculation says the graphics card, the Hypercom and the CD-ROM would set you back a total of under £250 new. That dossn't leave much room for an eccelerator and RAM, so you'll have to prioritise your choices - or stretch your student loon a little further

Bunch of Questions

Hr. I have a COUNTY LIDES I have en ICS

Zorro 3 board Is a gossible 200MHz PPC with 060 with it. I heard they are only for

A4000s 3 Where can I get

one of the CD32 lov seme place [not

4 Why when

I tried to buy a few Es the

reviews of the new 66MHz 060s were godoy, biesed and he said he 5 What happened to the Al 200

XI all those years soo lumed into the moody alcoholic looking east end market trader at all the Amaga shows in England?

Cheers, I hope you can answer these quastions

Met Fenton, ameli

1. Yes, you can, the Micronit Zorro 3 board has an A4000 style eccelerator stot.

2. In theory there should be no problem whetsoever, on the hand Cyberylsion PPC Isn't out yet, eq. we can't be 100% sure.

3. Never heard of them. Maybe one of our readers can help you? 4 Presumebly this "person" you

spoke to sells a board which doesn't run at 66MHz? He thought you should buy his instead, Hmm? Right... Did he give ony reason why he thought the review was dodgy or biased? We have absolutely no biases

towerds any software or hardware compenies. Why would we? On the other hand it is not uncommor to find retailers blessed against products etocked by rivel retailers Who do you believe, us who

have the adventage of having ectually



A2065 Old. but give it PERSONNE and it's still bloods



A Lewis case like this one is the ideal way of connecting a CD-ROM drive.

the product end seeing it running perfectly for a couple of months and no commercial Interest, or someone who's never tried the board and wents your money? in short, they were telking out

of their backsides. 5. Good question. We never

SRW ORR 8. Devid Pleasance has bach

moping eround ever stace his girlfriend left him for a large German with a wad of cash. 7. Ask a hundred zoologists this

question and they'll all have a difterent enswer. This question has puzzled the seges for centuries.

Multimedia confusion!

I'm currently on an MM College, Coventry and

am investigating en WINGS alternative for graphics etc. and intend downloading to video tape, is this a built in facility with all Amiga's A1200+ ? I don't necessarly need high-spec (such as en ness If not I would need to know what cards are evallable end whether any ellow recording from

computer et 'long play' rate

VCR display, but am looking at 17" monitor for my existing PC and elso the Amige when required Iristher than buying Amiga specific monitor as well) so I'm investigating how to fit graphics card to Armiga and link to PC Keep the info coming in your mag won't you. I Realise you are probably inundated with quenes and hope the queue is not into '98

PS I'm confused re FAQ Sept s I o w so how come a fast Pentium is required to emulate one? Are A1200s ectuely a lot fester than I give credit for or is it the emulator which dictates the speed?

Jill Daniels, Coventry

On the back of the A1200 is a small round plug socket merked RF out. This is an absolutely standard television serial socket. Plug sn serial lend from this into the back of your \$1200 and you can plug it Into a TV to use it as a monitor or into the back of a VCR and record the Amles's output, Grest, huh?

The thing to wetch out for to that this will only work if the Amige is displaying to PAL mode. Other modes run at different frequencies then TVs or videos, Most of the productivity modes of the

Amies A1200 will display on a PC monitor, but the PAL modes won't unless you get yourself something called a scan doubler

As for why emulators run so slowly. It is because an emulator has to trenstate the programmes on the fly. Think about it this way: if you want to read a book in a lenguege you don't know, it will take a long time to read even if you have a translation dictionary. As for the queue, if we enswered Q&As on a first come first serve

besie, you'd have to weit until about 2120 AD for your answer. We don't enswer tham ell 'coe there isn't enough space or enough time

We salect letters based on how useful the enewers would be to our readers in general, how interesting the question is, and how easy it is to get it onto the page le: literate, concise e-meile or lattere on disk stmost slways get in, rembling, herd to reed hendwriting simost never does.

fech Tips: Connecting a CD RDM drive

your CD-ROM drive separately Here at CU we don't think enyone should from your Amies, switch on the have to miss out on CD-ROM drive first the CD-ROM revolution, so here is the gulde to the cheepest possible way to get

1 Buy on Internet IDE CD ROM drive which is 100% ATAPI. Shop around, slower drives are stupidly cheep se end of line stocks. 2 speed drives have been seen for as Rittle as £161

Yourself a CD-ROM drive

2 Buy yourself the softwere. IDEFix '97 is current leader of the pack if you are willing to put up with negging requesters until you pay the registration fee, elternetively go tor AmiCDFS Both are available for a pittance from any PD library.

3 Find power for the drive. If your A1200 or A600 power supply is reasonably beafy and unstressed, then you can take power from this, look at solutis. If it isn't, look at solution b. 3a. Use the header on the

A1200 metherboard which the floppy drive is connected to. The CD-ROM uses lerger plugs, but only the size is different. Any computer perts supplier cen sell you a cable which splits a CD-ROM style (3 5") power connecter to two floppy disk style (2.5") connectors. One small connector goes to the floppy, one to the motherboard. The big connector goes to the CD-ROM driva

3b The CD-ROM drive can be powered very easily from a PC case power supply. They have connectors which will slot streight Into the CD-ROM drive Teke one from an old second hend case, or buy one new, they nest about £15, Setter, buy your self a mini tower case, it will house your CD-ROM drive more cleanly and gives you a convenlent switch. If you do power

4. Set the jumpers. At the back of the CD-ROM drive there are a couple of jumper switches - plns short circuited together with a small metallic clip - which specify the device as being either mester or sleve Your herd drive should be master, your CD

5. Connect the CD-ROM drive to your Amige with an tDE cable The important thing to remember is that the side of the ribbon cable with a stripe down it should connect to pin 1 of everything you plug it in to. If your Amins fells to boot, you may have an IDE device plugged in the wrong way

ROM shoutd be slave

Note that the IDE connector on an A1200/A600 is 44 pin, while your CD-ROM drive is 40 pln. An unfortunate oversight on Commodore's part when they designed the machine You will need to buy a special adaptor cable - If you have a 3 5" hard drive, you'll have one elready.

You will elso need to make sure the cable has three connectors on it, one for the CD-ROM. once for the herd drive end one to connect to the motherboard. Phone your fevourite Amies deeler, this is a specialist part.

6 Power up and Instell the softwere, following the Instructions which come on the disk.

7 Enjoy ell the best new gemes, applications and compi lations. You'lt never look hack! Total outlay varies depending on the details you employ, but this can set you back as little as £30-£40 if you shop ground! DIY suppliers

01642 713165 Eyetech 01908 251465 Blittersoft Mepiln Electronics 01702 554000 until nswiii.

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Els for.

An ArnigaDOS command which copies, or echoes, text to the screen. It's useful in the user, so they know what is happening. The text to be displayed is included in quotation marks as in ECHO "Hello,

AGA, came ECS and we all

thought it was wonderful obscure screan modes and that the ECS was

had actually lost the plans to was released as a test to see if they had it right. ECS appeared

The person in charge of the magazine, and also the text

Ed has grown into somereplace it with GoldEd or Cygnus Ed as soon as they realise what they are doing

editor, which means it works only a line at a time.

It was extremely practical back in the good old days of terminals connected to main frame computers - and you can use it over serial links if you really want to - but it s best ignored nowadays in Windows, Icons, Menus and An AmigaDOS scripting com

junction with an IF/ENDIF

Here's an example script which demonstrates it in action. This will only work in a IF EXISTS ram env ECHO "Ram Env found" ECHO "Ram Envinot found"

Emareld

clied with Workbench One of

The Amiga has a trashcan icon. where unwanted files can be stored. It's an idea pinched directly from the Apple Mac. although the manner in which almost usclass

There is a menu option from Empty Trash", but you will

An AmigaDOS command for all intents and purposes.

Used to terminate and IF strucscript. See Else for more details

guite complicated, and it is

This is done by "skipping" them with the Skip command

get a printer to work no matter

Two screen modes present Sometimes Euro72 is useful

An AmigaDOS command

(which keeps an eye on env.

ties, or force them to open

performed on the Start

Extended Selection

3185 1908 261468 1702 554000



Backchat

We shout the odds all through the magazine every month. Now it's your turn. Write or preferably e-mail us et: backchat@cu-emiga.co.uk



Gloom fixed

and the angular reader of your magazine and the all your CDs axcept for CUCD1; five found all of them to be very good value. My problem is on CUCD17 the Gloom demo appears to have a file missing and fm unable for the federations from CD as stated.

In try the demo from CD as stated The searched the CD for the file but cannot find if anywhere it is supposed to be in the rool directory. Gen the necessary file be added to a later CD7. Also can I purchase a copy of CUCD1 as this is the only one! hawarfi got and if alike my collection to be completed?

P Brown, E. Sussex

There was a problem with the Gloom demo as you say. You should find it on this month's CD in a working form. The first CUCD is no longer avellable as it has sold out completely.

TFX manual: a fiver Looking in my local news egent for your greet imagazine I came across another mag called Focus, December issue. Il looked interesting so I by Steve Boxer about the Amiga It contamed datells about the Amigin/Stepway sage and a review about its chequered history with Commodore and Eacom He said "if the company (Gateway 2000) can get a credible product in the shops. I would sink to my kness in admini-

bon' Strong stuff you'll agree. The smole riself didn't tell mis anything that your good selves bed-it elevady informed me about but what was notable was that this was the first time. I had seen sometime positive about the Amiga outside the decleated Amiga press Could this mark a turning point for the Amiga? I for one hope a

Alea, after your incredible TFX presence; of their CLI, times 10 to the 45th power – I not ned that Software First was saling the PC-CD ROM version of TFX for only a fiver I bought I has because it comes with the full minual i has checked the controls between your hints guides and the manual and thay appear to be the same and you get a mice TFX box to put your CD cover disk net.

So I would urge folk out there to buy this as it would at least show your appreciation to Ocean/DID for doing a very decent thing and allow mg us Arriga tolk to enjoy their won derful Hight sim

And finally does anyone out here in Arnga Land know how to get hus "secret legod ship" in Frontier-Eite IP1 bought Tony Orlion's Secrets of Frontier-Eite which was very helpful for a great many things but his left me more confused then ever about this Targord ship Please help it's driving me mad!

Finally, if David Braban is out there reading this then where the heak is the Amiga version of First Encounters Elite III? Come on Mr Braban, us Amiga (alk deserve it!)

G Houton, Renfrewshire

Where indeed? Tony Dillon provide to be a bit hard to track down this month so we couldn't sak him about the Tony Dillon the Teverite meshine, point a web brower ast. net/—mignesh/hm97 ht ml or change the 'hm97' part to 'hm98'.

Fall of the PC empire

For some years now I we owned an Arrigan 1200 and in the last three years I've been on two computer courses where PCs and Mess have been used, and in all honasty i have to say that my upgraded A1200 is a better mechane On my courses while telking to

On my courses while tellion I to the tuters I methoded whet mechant I used and they both replied the same "Oh I he America 18-bit leds geimes mechane", so I brought my "Tods games machine", so I brought my "Tods games machine in to show what if could do. Well if must be doing something night est they are both now proud A 1200 owners. Whet was that old addings "Seeing.

is befeving." Previous to the A12001 I had an MSX computer, which was to be the new direction in home computing, this to the dust. Why? Simple in a software etc. at I have had past experience of falled computers. I am now writing to warn athers who want the Amigs to survive in support the machine, we dill have in support the machine, we dill have

Could you imagine a PC owner having the same legally as the Amiga hea? This is the great strength of the Amiga Its users know how good it is, otherwise it would be dead and build by the same the same out of the same out of

 Gateway, Try pulling your finger out and put your money where you mouth is

2 CU Amige Keep publishing the mag. We need a local point of contact and you're IT — as far as most Amigens are concerned.

3 Amigens, Stop herping about old 500e and 800e, UPGRADEL Get a.

SObe and SODs, LIPGKADE I Gate a 1200 and slop slegging of lebout addresses to low what are in all honesty Dodos A second heard 1200 costs about E780 e new one is shout E780 Compare that to a PC or Mac for goodness sake. If you can't office to even buy a second heard machine meybe you should consider taking up another pastime like burgey ummy with an ordinary.

It's e pity Commodore didn't perform tieff as well with the Amiga as you have with the magazine. If they had, the Amiga would've been leading the home computing merket, and not struggling like at present. We may be down but we're not out.

Esmon MacAnna, Beál Felrste, Eire

"Could you imagine a PC owner having the same loyalty as the Amiga has? This is the great strength of the Amiga. Its users know how good it is, otherwise it would be dead and buried by now." Where ere the gamee? In the Nov 97 CU Amiga there was

on excellent article in the Points of View section. If was Andrew Kome piece about the Amiga being alive able in the shops I quote, products ere coming, gemes like Myst. OnEscapes and Gloom 3 have the potential to get people excited again

The question is will they be widely available?" Wall the lirst time I read this I thought to mysell, 'ol course they will be available. I've

However last weekend I went to known city not some piddly little villege) and Metro Center (the largest Shopping Mall in England I and was they had never heard of Street Racer or Gloem 3 and that the only game They had 'pencilled in for the Amiga Man 2 which they said had already been delayed for times!

"All that John is saying is make a PC. That isn't an Amina."

This makes ma wonder why comthe Amige et all. I'm not saying this because the Amiga is a dead format or because not arough people have games, I'm saying it because they publish thase gemes and advertise them in their adverts but they NEVER

I am probably right in saying their (hence they existence) and that must order is not as good a way of selling Things as adjually having them on a shell where hundreds of fans will visit every single day! So why don't The distributors get off their butta and get the games in the shops?

Inbutois will get more money. demand for Amige programmers will will get into the shops end we may even see the Arnige section growing biggor than the Atan 2600 section

Gareth Murfin, gazy@globalnet co.uk

Kennedy fen club no. 1 Its just obvious that some of us 'Anxicans' me not as close to the



A OnEscapiu, in a shan man you moon... keepfulb

Take John Kennedy as an example,

He says that the "New Amiga" should be a black box, that plugs lot of other things I scluelly thought. This was a good idea, it has to be done because we need Internet. Explorer or Netscape (OK get them get AmigaDOS and the Workbench'

Now hang on a minute WindowsCE, lant that used on them.

of the main reasons we stok with use of Workbench, and how it inter All that John is saying is make a

is one of a kind with its own operal ing system and own technology So what the hell is he on about? We dont went to fall to Windows - If we did we would have changed over to Also the games scene for the

Amiga is leoking great. I today downloaded a demo of Foundation, and I am delinitely going to buy it. For one person to create a game like that is help but this guy is extremely talent-

which I cen't went los, and many more games that require a proper machine to iun. Leeving on a good nois, I have come across the Nova Dasign website. They are creating PPC Amiges, in meny different ranges and me quite cheap

They include amezing 3D capabilities end much more. I think this is what the third party Amide menufec-

turers need to do. We don't want 030, 040 or even 060 because they are just too slow now

Now if a down to us people. We need to keep the Amiga stive, otherwise get used to WinblozeCE or whatever We can get through this. and we are going to get through it, rust stick with it Aeron Newitt, Birmingham

Kennedy fen club no.2 bling on about? Replace that

The entire REASON Amiga users ere still using the beast is because of its ease of use and streightforward operating system! We do NOT went something that takes up 8Mb

The Amiga's OS is compact and very quick, certeinly e lot faster than any versien el Windeze I've seen running on any Int al CPU Wa'd vary Please lock Mr Kennedy up in a spom of PCs and only let him out when he starts to scream. Then we'll have no more of this crazy talk?

Neil Sanderson

That's opinions for you! We believe the way ferward is for everyone to heve their say, and that includes you of course By the same token, we don't yet

the Points of View section to make

Controversy of the month

Brink of insanity

speed serial ports and SCSI

and 4Mb graphics caids as well as at best meek marvels of vestardey

Bold steps are needed. Check

Palionising the 020 and 030

Shene, vie small

The voice of reason or just enothas naw PC convart snubbing his smuo nose at the Amons scana? As we really all doomed? to the PowarPC route a daudand? And just where does bally button fluff come from? Let us know what you think of It all.

Continued contact to be by

nide

. Eire 10 know

w"



A Picasso IV, set so affordable to all and sendry

sure everyone always singe the preless of the Am/ge. Blind faith is dengarous – we prefer a good healthy debate.

Wrong end of stick So, now I read in the web directory

So, now I read in the web directory that what out dear ole Petro Tyschtschenko (god what a drificuli name to spell, I guess he hearn expanenced much cheque freud) wants to see in the Luture is an Amigs with a 88080 processor

How the daugh o dongs name does he think thet he will manage that? How will one single company mening to revive is CPU that? Thought of all clanishes by most of the computing society and the manager entress in the Annie Community I firmly believe that it is your obligation to avery Petro Boy avery I term this flosh is not on.

Another very concerning statement that I read there was that Petro dich't went to rewrite the OS for a new processor! My god, whet is it with the man? A new processor so critical for new and improved speed, then a duel-CPU period is illinevirable (we have this trainst period new with places to beerds).

But please, Amiga Internetional must peak the Amiga community forward mis the next stage. The RISC are with a RISC optimised OS. We can ell check out the efforts Apple made with their limit PowerMACs where there was an Olymning Six amulation.

It is high time that Amiga Int get their flage out of their yeak-how-whet and show the Amiga community how we will enter the year 2000, and most importantly it should be a build move that shows the Amiga community that we are really back for the future, and their shot least wome attempt to squieze some cash out of the game entertainment. As a little warmpt of the doll mon-area.

As a little example of bold innovators in the Amiga merket I present

to you CleskBOOM With their latest germe CDSMO their unity dot a standard to the harmonia scale for incommending scale for lates and their properties of the properties of their properties of her properties of her

PS How is it going with those 880x0 mside/Powered by Amrge starters?

df397ee@itstud.hifm.no

You've meneged to get the wrong and of two sticks in one letter Well done!

First tet's teckte the 68060 issue. What Patro meant was "wouldn't it be a whole to essier for us all if there was a 58000 chip that was comparable to a PowerPC. That way it could just

"Another very concerning statement that I read there was that Petro didn't want to rewrite the 8S for a new processor!"

be dropped in place without the need for all this re-writing of softwere end the operating system. This wasn't a serious suggestion that the Amiga continues with a progression of the 480x0 series.

Next, this game catled COSMIC doesn't exist and it never will do. ClickBOOM are merely stating the kind of system requirements that would be required for verious types of games, should thay be written in the near future

They are saying that the game that requires a system such as you mention would be "cosmic".... es

in "extremely good".

Mega bucks

I always look forward to soong the magazine in the store again, espe-

But I elso dread to read it You ask yourselt winy? (et least I think you would) Well I is hall explain. Every menth you renew something great, and that is the problem Again I have to look at something areas that I can't buy. I fee:

sourmers gold pick (179 9)
supmared CHT 2:0905
surring 2:05 19:05
File sourist Sec 2:095
Fi

yourselves lucky at the magazine that manufacturers mail this stuff to you for evaluation and that you can go to the boss and ask for funds. I'd need about 3 to 4 years to

I'd need about 3 to 4 years to save this land of money And when I have to think what it would coat me if I had this set up I could emulate a PC with Windows96 and a tell Mac I would need to buy Mac and PC magezinas and games too.

The delay in development of the Arriga may have been bad, but for me it gave the machine exits value, unlike my brother who bought a top range PC a year ago that is now an entry machine, my miggy was useable langer.

Don't think I don't upprobe. I bought on accelerator card (IGSI02/ISS2) to bought on accelerator card (IGSI02/ISS2) to bought on accelerator a vera a surfaciumel with a vera exact a surfaciumel with a variety a vera a surfaciumel with a variety of the variety of the very surface of the variety of the very surface ve

But I now see that I cannot keep up in the race, so I have to fold and eack with the set up I have now

Dennis Elis, Netherlands

To the Point...

OK online

I'm just writing to thank you for the excellent Net thal with UKDnine With your help from the Witred World end Suris Up! columns the Internet really is fun to use on the Amge. Many thanks and keep up the good work on the megazine.

David Steele, vie email

Can't get off

Thenks for the free internet that with UK Online. Slight problem Three days now I have tried to disconnect but my willpower is gone My brain is overheating. Intornation overload.

spinus cookis. Now if I could only reach that off button. Neh. I II just have another hour.

Lezy Bone, vie email

TFX dodgy disks What can I say about TFX.

plutely 22 ceret billiant. A little sest though. Please, have e d with your disk copiers as st of my TFX disks had errors. I eventually got them replected

The got this month's CU Amiga and want to install PC Task and guess what more errors on the disks. I know I could get their replaced but I just wish they duse some decent disks, Anyway keep up the fine work.

Geneme Wakerley

We're not sure what happened with those TPX (loopies. The disks were certainly from a bad bunch and we've since hed stem words with the duplicates it seems you just got unbulky with PC Task though, as new, higher questy disks were derived in that steep. Any feetly cover disks you might come ecrose will always be replaced.

......

CD Arrige reserves the right to amend or edit readers' letters submitted for publication



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Points of View

Tima again for a few more opinions... Pleasa note that tha viaws expressad are not nacassarily those of CU Amiga Magazine.



Tha best advartising monay can't buy



For what endounts to a pretty monor dear in their bank balance Sateway bought up the rights to the Ampa from Escoms liquidtors From that they have the potential to open a significant new morkstiptes, the low to mod range home computer markst. These days wereyone with sections to multimade, to the markst middle, to the markst middle, to the markst middle, and the markst middle programs or programs or middle pr

the most user friendly of machines:
Gateway undoubtedly bought the Arrige well ever of the potential the pittler of the potential the pittler of the potential the pittler of the order of the order of the pittler of t

spend £1000 plus on a

PC, and for that you hardly get

ers, the last year or so has shown them that diversilication is the key to success in the computer market, hence their moves into server systems leptons, and products like the Destination TV/PC.

Getting en ASOU for IH 90's into the mass morted will take a lot more money then the property cost in the first place it would be easy for A at let some the solution of the solution in the property cost in the first place it would be easy for A at along at its some pace late mortal umbile along at its some pace late mortal in the which Aller did they want to make the Amaya o mass many or more to make the Amaya o mass many in how to oddress the concerns of a fix feet con-

stituency than the current Armas crowd, so it may seem to them that supporting the current community rant as high priority as preparing for

They ere well aware of the velue of the expertise there is in the marlest, companies like Phase 5, Index information and HiQ, who have produced revolutionary hardware.

AMIGA

designs. They recognise the importance of software houses like Newtek, Cloanto or Hooge & Partner who have produced some of the Amilian's defining software.

of the Amiga's defining software trans at companies like Vulean end ClickBOOM who do so much to keep the games merket alive, and the importance of those hundrids of developers who distribute vice harmest and have made if the ultr ms is software resource. The ques-

"Right now the only real choice is to spend £1000 plus on a PC, and for that you hardly get the most user friendly of machines."

"At have a vast worldwide advertising campaign just waiting for the word. To buy advertising like that would cost lar, lar more than buying the company."

bon is whether or not they truly understand the value of you to the most end of the truly of the most end of the most end of the one People thank Apple users earlyall, but they are grandmother sellors to a more companied to the Amage community by buying risk Amage cost of the most end of the most end

Amuga community By buying into Amuga, Gotsewy bought Al bilerally tons of thousands of evangolical satesmen and PR people who will happify spread the world for free



guys of Al were to read the post we get they would see letters from the readers who went into their local Escore shops and installed demos on the Amigas there so people could see something more retreating on display than a 4 colour. Workbench, they would hear about

the people who go to en evening course on computing and tring in their Arrage to convert the teachers. The people who supply technical help to local Arrage suses free of charge, the people who supply technical help to local Arrage suses free of charge, the people who size freeds and family on their computer purchases and would have them buying. Arriges like a shall if

them buying Amigas like o shot there were any in the shops. Quite simply, Al have a vast worldwide advertising cam-

polgn just waiting for the word To buy odventising like theil would cost fer for more than buying the company. If Al know what is good for them, they aren't going to let that free advertising walk inver-

theil free odvertising wolk away
it's time that At really did
something to tell all those people
out there that what they have
done is oppreciated and

will be repayed. No-one has ministre patience, and the re-appearance of an owner rish't enough to stop the market hasmorphagma usors. So All get your finger out end say "thonks, and stay with using "You have been quiet too long ond in the finol onelysts it's your-selbes your are harting."

Invest a lettle now — how much would it cost to prove to the maicel your serfolishess, your willing nos? To buy the current user base a small present or two? Compared to what Al havo to seend on marketing as a whole speer change. Spars change sperit like that is on investment the takes of which give edvertising and ministering people well.

Andrew Korn, Staff Writer

The dangerous games

Amiga development, both for "Amigs Of The Future" whatever our new friends in South Dakota

Yes this is about custom ver-80s standerd chips, but trust me, rt s not the same old argument of punty versus 'cloneism' - the ergument that anys that if Jay use industry standard parts ha wouldn't have staved up lete with pencit and paper and revolubonizing the world of computing. cheap chips from Yemehe and

It's clear m this day and age nents from outside strictly Amrga

no true 24-bit video no 16-bit endio no uttra-last senat ports aitting on clock headers and no

cheap PCMCIA ethernet cards to

ly without supervision or last four years And it has been the urrage blend of their

> that heve brought these wonderful

elways been ple. Phase5 et one months on the S3

"... when you're not tied to a particular supplier by being owned by the same company, you can play the market far better services at better prices..."

CyberVision 84 When the ultimate control of componentry lies in someone else s hands, you suddenly become just enother bidder for their services - a bit different from the days of Commodore and their wholly-owned they had schedntes too, but it was a the same company.

Nobody et Amrge, Inc. Is likely to components they deserve in fect, Arrige, Inc. is divorcing itself as ties of the Arrige preferring to

Their licensess to date heve been

febrication plants either They work from Amage, Inc. for the OS and Chipsets demand from vanous other outsourced suppliers for CPUs other chips, motherboards

is that the production of Amigas has a few new vanables thrown in to a particular supplier by being can play the merket for better ser

(Commodore's thip fab proved mcepable of manufacturing AGA Lisa so HP had to be contracted

try - this is how the PC clone mail ket works and it does seem to be working for Gateway doesn't it? Jasqu Compton. US Correspondent

Where now for Amiga software?

There are two key ereas to a successful computer, one is oreat hardware and the other is power ful and affordable expiretion software. Over the last twelve months, we have certainly seen some really excellent pieces of

ware coming in for raview and you'll ass hardly env.

mejority of Amiga owners have softwere Honestly they heven't There will be those of you shaking your heads and saying "I do" but Appreciated, but still in a minority

Important numbers for many soft. were peckeoes and it isn't pleasless than half e parcent of the totel CU Arringa readership



ership to this and those that don't buy Amiga magazines and that percentage drops to even lower lavels. So what is the future for Amiga softwere it this is the level of support

There are two possibilities. One is thet within two years there will be no or very little up to date commer crel Amroa software avariable erro do we really went to see that happen? Of course not The second

option is for those that have so fer faried to support the Amroe, to get "... many soltware publishers are really hurting. If they don't get your support. who loses out? You do. We are not talking charity here."

out there and buy et show authors that their

ship to make a product pay for its development (a year perhaps two) and encourage the author to stick with it

Legrae that the Amiga software market is perhaps no worse then the PC one in terms of percentages of units sold end sure, there are erguments for end egamst coverdisk mounted software but tolks, meny software publishers are ready hortmg if they don't get your support. who loses out? You do. We are not talking chanty have

The prices of many software peckages are very cheap indeed value. Packagas like Wordworth well when it comes to ease of use end the features you get

of the all time best deskrop sub-Dray/Studio is so much easier use than the PC equivalent on on image on the Amige than the

some box back now

Larry Hickmett, Contributes

ust

ı."

tong

Techno Tragedies is dedicated to the memory of those technologicel innovations which somehow never quite cought on. This month we pay our respects to the Jupiter Ace.



What was it?

Back in 1992 when my friends had sold their ZXBI's to help pay for the ZX Spectrum, and the Armon was still a glint in the eyes of some American dentists, I did something odd. White Spectrum order to get to the top of the heap, I

Richard Altwasser and Steven Vickers the Ace was a Zilog ZEO based computer. At the time, the We saw how Clive got rich making computers,

Standard specifications included 3K of RAM and BK of ROM but there was one mejor differputer before or since. Whereas all the other computers came with the programming lenguage BASIC built into the computer's COM, the Jugiter Ace used FORTH

Why should it have made it? The Ace was fast BASIC programs on other computers of the day were incredibly slow but

The elternativa - machine code - was a black art

ECIRTH on the other hand was very fast and much more memory efficient. FORTH combined the low-level expects of C with sample structured mer reared on REM statements and GDTOs

The implementation of FORTH was exception al too. Originally a language designed for controlling radio telescopes no ona had imagined it was an interective system until Jupiter Cantab came out with the Acc. The little OK" message **Mathe Jupiter Ace**



A lesswood by Sir Clow's ZXE1 success. Altwesser and Vickers had a crack at going it aloss with the famille leaking Ace.



Like a 2001 in angetwo form, the Japiter Ace fored itself county between the two steels of Sincloir's papelin mechanic



A Go FORTH and program above and beyond the power of RASIC Alan the Ace's monacheson graphics enalsh't held their eyes in the face of cales competition from the ZX Spectrum.

at the bollom of the black screen always makes me nostalgic for the many hours I spent defining new words and building up programs block by block, before trusting them to a cassette tape

ics only, the screen was cheracter mapped, each 8 by 8 pixel black on the screen could be written in one operation. It also had user programmable characters, and the end result was an often misquoted 256 by 192 display that was perfect for writing games. I wrote dozens of games using a combination of FORTH and mechine code and

they ren fester and more smoothly than enything seen on the Spectrum.

Why didn't it make it?

The Spectrum eventually appeared in big numbers, and blew the Jupiter Ace away. Rich kids hed their mummles buy them BBC computers which were even better. The Ace was built incredibly cheaply, and it showed. The case was

thin white plastic held close with plastic rivets The keyboard was an extension of the main computer PCB with tracks being shorted by conductive pads on the rubbar keyboard. Each key keyboard had to be bought (or even made by

Even the herdwere design itself was flaky. with multiple addresses eccessing the same memory locations with differing results and the magness of reorganising the expension port at the rear By altering the port slightly, a goneration of cast-off Z081 peripherals could have been plugged streight in, instead Ace owners had to

In the end, the cheapness of design, the use of FORTH, the lack of colour and any possibility of gernes softwere spelled the end for the Ace The merket was becoming flooded with cheap, colour home computers, and a 3K black and white elien device didn't stand a chance. The Spectrum frenzy took hold, and the rest is history

Where is it now?

In 1994 Jupiter Cantab went bust and the Jupiter Ace was bought by Boldfield Computing. After that it just vanished the last I heard from Boldfield was a mailshol offering to auction off

I don't regret buying the Ace Learning FORTH made me a better computer programmer I certhan those versed in the linear end non structured BASICs of the day, I also learn! how busness ventures can let you down, when a company which had promised to sell my Ace

By the time the Ace was dead end buried, I hed moved onto the Amstred CPC with a work ing knowledge of 280 Assemblet end a sense of disbelief that a keyboard could really work with FACI on the Ace at http://users.com/com/outism uk/ace/feq.htm with links to an Emulator running under MSDOS. I hope very much to find some old tapes in my roof space and get my old games running egeln! #

John Kennedy

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Sixth sense investigations" is a new graphice adventure for his Amig, sense on the classic Lucia Aria six persons. This has a sense of the classic Lucia Aria six persons. The locammunicate with the spirit of a sense all man. A friend, who taking of the result on a selective, grotter from the payeline advitted or the fired (the excap specific gay, by using a satillate of the fired (the excap specific gay), by using a satillate of the fired (the excap specific gay), by using differ. Advit 201 m. Aviolobus as Angae Coland Disk. ZZZZZ (the Avioland Coland Co

Pastin your sext table and the property low in experiency like you've event seen balance on your Analys. Plyin High in Games, Step on the gas and sext one to be large Sanches, Step on the gas and sext one bully saturate and alignery loss. On a 80000 Analys the game is great loss. Playing with a physics on a 800012 in mally improved Playing with a physics on a 800012 in mally improved Arabitation on Analyse of and Date. Only ITILE Arabitation on Analyse of and Date. Only ITILE If you see it cheaper, and they have it in stock, we il match the prices























Kid's Games!















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